HART COUNTY HIGH SCHOOL

Proudly learn, Respectfully live, Fearlessly give...
We are Hart!

Diploma Programs and Course Offerings

Hart County High School is an equal opportunity school. No person will be discriminated against because of race, color, national origin, religious belief, gender, sexual orientation, age, or marital status.

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WELCOME TO HART COUNTY HIGH SCHOOL

This curriculum guide has been developed to furnish students and parents and/or guardians with some of the information that will be necessary for the selection of an appropriate high school schedule. Since the needs of each student vary, it may be necessary that you supplement this information by talking with teachers, counselors, or administrators. Our broad and varied curriculum offers many opportunities for students at HCHS. We want to work with parents and/or guardians and students to select the curricular program that will best serve the needs of the individual students. Also, all students should strive to complete a career pathway with their elective choices.

Please select your courses with care. Be careful to include any subjects you have failed that are graduation requirements. It is **YOUR** responsibility to sign up for the correct classes. **Remember, schedule changes will only be made for mistakes on the schedule.**

If you have questions concerning the scheduling process, please feel free to contact the appropriate counselor below at **270-524-2332 or 1375.**

Christie Wilcoxson	**Crystal Thompson**	**Whitney Choate**
Grades 11-12	Grades 9-10	Grades 9-12
School Counselor	School Counselor	CCR Counselor

General Remarks: In order to know whether a student is eligible for any given class, the prerequisites and the grade level are located in the course description.

INDEPENDENT STUDIES --- Upon approval of the school principal, counselor, department head, and participating teacher, a student may acquire credit for courses available in the curriculum through independent study. Courses offered for independent study must follow the guidelines approved by the HCHS School Based Decision Making Council.

Gifted and Talented Program

In an effort to meet the needs of the Gifted and Talented students at Hart County High School, we offer the following classes: (However, these classes are not offered exclusively to Gifted and Talented students.)

Arts:

- Fundamentals of Art, 2D Art, 3D Art
- Dual Credit Art Appreciation
- Concert and Marching Band
- Chorus

Math:

- Honors Algebra I
- Honors Algebra II
- Honors Geometry
- College Math
- College Algebra
- Dual Credit Trigonometry

Science:

- Honors Integrated Science I
- Dual Credit Biology
- Honors Biology

Language Arts:

- Honors English I, II, III
- Dual Credit English IV
- Yearbook I & II

Social Studies:

- AP US History
- AP European History
- AP Human Geography

HCHS partners with Western Kentucky University, Campbellsville University and SKYCTC to offer online and onsite dual credit courses. These course offerings are set by the university and vary each semester. Please reach out to a guidance counselor for the current course offerings.

Hart County High School Tri-Level Diploma Program		
Standard Diploma (25 Minimum Credits)		
Program Area	**Courses**	**Credits**
English	English I, II, III, IV	4
Math	Algebra I, Geometry, Algebra II or other approved math elective, Math Elective	4
Science	Integrated Science I, Integrated Science II, Biology	3
Social Studies	Integrated Social Studies, World Civilization, US History	3
Health/PE	Health- .5 credit & PE- .5 credit	1
Financial Literacy	Personal Finance	1
Arts & Humanities	Electives *may* include: Art, Theatre, Music Appreciation, Band, Chorus	1
Career Pathway	Must complete (4) credits in an academic or career pathway.	4
Electives		4
Total		**25**

Comprehensive Diploma (26 Minimum Credits)		
Program Area	**Courses**	**Credits**
English	English I, II, III, IV	4
Math	Algebra I, Geometry, Algebra II, Math Elective	4
Science	Integrated Science I, Integrated Science II OR Chemistry, Biology	3
Social Studies	Integrated Social Studies, World Civilization, US History	3
Health/PE	Health- .5 credit & PE- .5 credit	1
Financial Literacy	Personal Finance	1
Arts & Humanities	Electives *may* include: Art, Theatre, Music Appreciation, Band, Chorus	1
Foreign Language	Recommended as pre-college curriculum	
Career Pathway	Must complete (4) credits in an academic or career pathway.	4
Electives		5
Total		**26**

*Students should consider the pre-college curriculum in choosing math, science, social studies, and foreign language courses.

Our students will pursue personal and educational goals as they learn, live, and give with the proud HART of a Raider.

Merit Diploma (28 Minimum Credits)		
Program Area	**Courses**	**Credits**
English	English I, II, III, IV- (1) course must be advanced (ex.- honors or dual credit)	4
Math	Algebra I, Geometry, Algebra II, Math Elective- (1) course must be advanced (honors or dual credit)	4
Science	Integrated Science I, Chemistry, Biology, Advanced Science Elective	4
Social Studies	Integrated Social Studies, World Civilization, US History- (1) course must be advanced (AP or dual credit social science)	3
Health/PE	Health- .5 credit & PE- .5 credit	1
Financial Literacy	Personal Finance	1
Arts & Humanities	Electives *may* include: Art, Theatre, Music Appreciation, Band, Chorus	1
Foreign Language	Recommended as pre-college curriculum (2 credits of same language)	2
Career Pathway	Must complete (4) credits in an academic or career pathway.	4
Electives		5
Total		**28**

All students must complete the following:

1. Demonstrate competency in Technology.
2. Pass a 100 question Civics Exam with a score of 60% or higher.
3. Take an English and Math class each year of high school
4. Receive instruction in essential workplace ethics.
5. Complete an Individual Learning Plan.
6. Complete CPR training as part of Health or PE.

Addendum

1. Valedictorian and Salutatorian will be selected as follows:

a. Enrolled in high school for (4) years

b. Fulfilled all requirements for Merit diploma

c. Highest scholastic average on a 100 point scale

2. Honors students will be selected from the Merit and Comprehensive diploma program. Students with a cumulative scholastic average of 90 or above in these two programs will be recognized at commencement as honor students in their chosen level of academic preparation.

HCHS Grading Scale

A 90-100%
B 80-89%
C 70-79%
D 60-69%
F 59% and below

Honors Placement

Honors classes are offered in a variety of core areas. Students must request honors courses, and placement will be determined based on one or more of the following: previous class average in that content area, placement test, and score on a national norm-referenced assessment such as the ACT.

*Honors and AP Courses will be weighted.

Courses

Courses are offered on the student request forms to gauge interest. These requests help determine the final schedule. Staffing and class sizes must be considered for all classes. Therefore, an individual course should have 10 or more students to be included in the master schedule. In some circumstances, SBDM may choose to approve a course with fewer than 10 students.

Courses offered in partnership with colleges and universities may have additional prerequisites beyond those set by Hart County High School. All institutions which offer dual credit courses, in-person and online, charge tuition. Tuition costs are the responsibility of each student. However, various scholarship opportunities are currently available to assist students. Please reach out to a counselor to apply for these scholarships.

Personalized Learning for All

At Hart County High school, we strive to provide meaningful learning opportunities for all students. In addition to the traditional schedule options, we offer the following choices to our students.

Raider Academy: All students at HCHS are encouraged to challenge themselves to their fullest potential through rigorous coursework and appropriate pathways.

- Who? All students in grade 9 are part of our Raider Academy.
- What? These students share the same core teachers and rotate on a slightly different bell schedule than students in grades 10-12.
- Why? The goal is to ease the transition into high school.

Hilltop Institute: The student will attend WKU Glasgow campus as a part-time student for half of the school day. Students must have or be working toward college and career readiness goals.

- Who? Students in grade 12 who have completed prerequisites.
- What? Students will have the opportunity to earn at least 12 college credit hours.
- Why? The goal is to give our students a head start on their college education at a greatly reduced cost.

Barren County Vocational School: The student will attend Barren County Vocational School for half of the school day. Students must have or be working toward college and career readiness goals.

- Who? Students in grades 11 and 12 who have completed prerequisites.
- What? Barren County Vocational School offers 13 programs of study.
- Why? The goal is to prepare students to either directly enter the workforce or continue training in a skilled trade.

Caverna/ Barren County Vocational School: The student will attend Caverna High School for two periods of the school day. Students must have or be working toward college and career readiness goals.

- Who? Students in grades 10, 11, and 12 who have completed prerequisites.
- What? Caverna offers 3 programs of study.
- Why? The goal is to prepare students to either directly enter the workforce or continue training in a skilled trade.

WKU Dual Student: The student will attend WKU Glasgow campus as both a high school and college student. Students must have or be working toward college and career readiness goals.

- Who? Students in grade 12 who have completed prerequisites.
- What? Students will have the opportunity to earn at least 24 college credit hours.
- Why? The goal is to give our students a head start on their college education at a greatly reduced cost.

Dual Credit Courses: Students in grades 10-12 who meet college requirements are eligible to take a variety of dual credit courses both online and onsite at HCHS. Courses vary by semester. Please see a guidance counselor for more information.

Pipeline to Workforce Program:

- Who? Students in grade 12 who have met academic and career pathway requirements.
- What? Students will have the opportunity to work a full-time position in a skilled trade area with the goal of advancing future career opportunities. Students will attend class two nights a week at HCHS to complete graduation requirements.
- Why? The goal is to give our students real-life career opportunities, especially those students who plan to directly enter the workforce. These students receive quality work experience in skilled trade areas in order to better prepare them for future employment.

Other Online Learning Opportunities: Students in grades 9-12 may be offered opportunities to complete courses via an online learning platform. These options are available to virtual students and students working toward credit recovery.

What is College and Career Readiness?

At Hart County High School, we strive to ensure that all students are College and/or Career Ready when they earn their diploma. This means that we will work with all students to improve academic scores and prepare our students to be career ready in one of our Career Pathways.

COLLEGE/CAREER READY AT HART COUNTY HIGH SCHOOL

College and/or Career Readiness is a program of study designed to better prepare and meet the individual needs of students as they leave high school to enter the workforce or post-secondary education. HCHS offers Industry Certifications that are articulated with Kentucky Technical Schools and some Kentucky 4-year post-secondary schools. Students have an opportunity to receive Industry Certificates and/or EOP (End of Program) Certificates after completing coursework in all of HCHS pathways. Such agreements help the students and their families save money on the cost of college courses and time to complete certification or degree programs.

HOW TO BECOME COLLEGE READY

A student must meet qualifying criteria in one quantitative reasoning or natural science category AND one oral/written communication; visual and performing arts; humanities; or social and behavioral science. HCHS offers a variety of ways to become College Ready.

The ACT is a college entrance exam and is used by colleges to decide admissions of applicants. All juniors at HCHS take this test in March. Students may take or retake it here at HCHS on national test dates. It is recommended that all students try to take the ACT at least one time prior to the schoolwide March junior administration. The scores are also required by colleges to avoid taking and paying for development courses. Students do not receive college credit hours for developmental courses but must still pay for and complete these classes before being allowed to enroll in any required freshman level course in that subject.

ACT Benchmarks:

English- 18 or higher
Math- 19 or higher
Reading- 20 or higher

KYOTE This is a college placement test that helps colleges decide what courses students should take once they are admitted. This test can be administered, but only after a student has been unsuccessful on the ACT. The KYOTE benchmarks are as follows:
English- 6
Math- 22
Reading- 20

Dual Credit Courses The state of Kentucky recognizes dual credit courses as a way to demonstrate college readiness. Students enrolled in qualifying dual credit courses AND who earn a C or higher (unweighted) can become College Ready.

HOW TO BECOME CAREER READY

In order to be considered a completer in a given pathway, students shall successfully complete 4 specific courses in that area. Students must pass an End-of-Program Assessment (EOP) specific to that Pathway, or receive an Industry Certificate relevant to that Pathway outlined by the KY Department of Education in order to be considered Career Ready.

End of Program Assessment (EOP)- Students must earn at least a 70 on academic, employability, and occupational multiple choice questions specific to their completed Career Pathway.

or

Industry Certificates - Students must receive an Industry Certification specific to their completed Career Pathway by passing Industry Certificate Assessments. These certificates are based on industry standards and are outlined by the Kentucky Department of Education. Some pathways require multiple Industry Certifications in order to be considered Career Ready. This is outlined and updated each year by KDE and KY Workforce Innovation Board.

Dual Credit Courses The state of Kentucky recognizes dual credit courses as a way to demonstrate career readiness in a pathway. Students that enroll and successfully complete two CTE (technical) dual credit courses, with a C or higher (unweighted), in the same pathway are considered Career Ready.

Hart County High School Career Readiness Pathways

AGRICULTURE

Animal Science Systems (End of Program Assessment)
- Principles of Agricultural Science or Agriscience
- Animal Science (Certification)
- Small Animal Tech
- Veterinary Science (Certification)
- Agribusiness/Farm Management or Ag Sales & Marketing or Food Science & Technology (Certification)

Horticulture & Plant Science Systems (End of Program Assessment)
- Principles of Agricultural Science or Agriscience
- Landscaping/Turf Management
- Greenhouse Technology
- Plant Science/Crop Technology (Certification)
- Ag. Construction Skills or Agribusiness/Farm Management or Ag Sales & Marketing

Environmental Science/Natural Resources Systems (End of Program Assessment)
- Principles of Agricultural Science or Agriscience
- Wildlife Resources
- Forestry
- Greenhouse Technology or Ag. Constructions Skills or Ag Sales & Marketing

Agribusiness Systems (End of Program Assessment)
- Principles of Agricultural Science or Agriscience
- Agribusiness/Farm Management
- Agriculture Sales & Marketing
- Small Animal Tech or Greenhouse

BUSINESS

Accounting (End of Program Assessment)
- Personal Finance
- Accounting & Finance Foundations
- Financial Management (Quickbooks Certification)
- Business & Marketing Essentials (ASK Certification Fundamentals of Business)

Administrative Support (End of Program Assessment)

- Accounting & Finance Foundations OR Personal Finance
- Office Administration (MOS Certification)
- Business and Marketing Essentials (ASK Certification Fundamentals of Business)
- Business Communications

FAMILY & CONSUMER SCIENCE

Early Childhood Education (End of Program Assessment and Commonwealth Child Care Credential Industry Certification)

- Early Lifespan Development
- Child Development Services I
- Child Development Services II
- FACS Essentials
- Parenting/Relationships

MANUFACTURING/WELDING

Welder- Entry Level (AWS Industry Certification)

- Blueprint Reading for Welding
- Shielded Metal ARC Welding
- Gas Metal ARC Welding
- Cutting Processes

U.S. Army Junior Reserve Officer Training Corp (JROTC)

- Leadership, Education, & Training (LET) I
- Leadership, Education, & Training (LET) II
- Leadership, Education, & Training (LET) III
- Leadership, Education, & Training (LET) IV

*The JROTC program is a leadership course and there are no requirements to join any of the armed services. If cadets decide to choose the military as their career pathway then JROTC could help advance them in rank or promotions by completing three or more JROTC (LETS 1-3) classes.

Green River College and Career Academy Programs

Diesel Truck Inspection, Maintenance, & Minor Repair (Certification)

- IMMR Section A
- IMMR Section B
- IMMR Section C
- IMMR Section D

Truck Service Technology Technician (Certification)

- TST Section A
- TST Section B
- TST Section C
- TST Section D

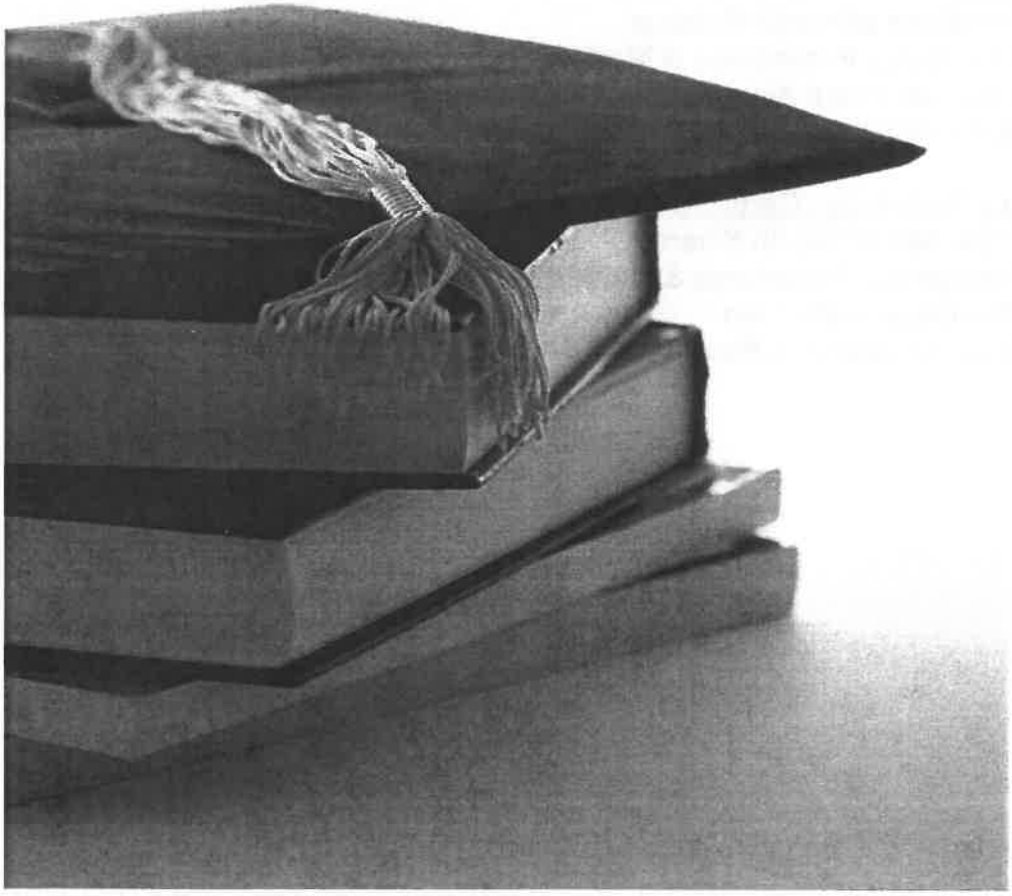
Pre-Nursing (State Registered Nurse Aid)

- Principles of Health Science
- Emergency Procedures & Medical Terminology
- Medicaid Nurse Aide
- Body Structures & Functions or Anatomy

Pharmacy Technician (Certification)

- Principles of Health Science
- Emergency Procedures & Medical Terminology
- Pharmacy Technician
- Body Structures & Functions or Anatomy

HART COUNTY HIGH SCHOOL COURSE OFFERINGS AND CLASS DESCRIPTIONS



AGRICULTURE

Agricultural Construction Skills
Grades: 10-12 Credits: 1
This class prepares students to construct and maintain agricultural structures and equipment. Students learn basic skills such as: tool identification, interpreting plans, calculating a bill of materials, electrification, carpentry, welding, metal fabrication, plumbing, and masonry. Content will be enhanced with appropriate computer applications. Leadership development will be provided through FFA.

Animal Science
Grades: 10-12 Credits: 1
Animal Science develops basic knowledge and skills pertaining to livestock identification, selection, nutrition, reproduction and genetics, health management, and marketing of one or more species of farm animals. The latest biotechnological applications will be included. The content will be enhanced with appropriate computer applications. Leadership development will be provided through FFA.

Greenhouse Technology
Grades: 10-12 Credits: 1
This course provides instruction in greenhouse structures and environment regulations, plant growth, development and propagation are included as well as production maintenance of bedding and container produced plants. Content will be enhanced with appropriate technology. Leadership development will be provided through FFA.

Principles of Agricultural Science and Technology
Grades: 9-10 Credits: 1
This course introduces students to the National FFA Organization and an overview of the importance of the agriculture industry. Agricultural career opportunities will be emphasized along with the history and structure of the FFA organization, public speaking, parliamentary procedure, and organizational management. The selection and planning of a supervised agricultural experience program and related record keeping will be presented. Leadership development will be provided through FFA.

Landscape Design
Grades: 10-12 Credits: 1
This course combines landscaping and turf management curriculum. The material includes identification of landscape plants and their characteristics, site evaluation, site design, calculation of materials needed, costs for bidding, and installing landscape plans. Landscape plant maintenance will also be presented. Selection, culture, and management of turf species used for lawns, golf courses, athletic fields, and erosion control will also be included. Content will be enhanced by utilizing appropriate technology. Leadership development will be provided through FFA.

Small Animal Technology
Grades: 10-12 Credits: 1
This course develops scientific knowledge, management practices, and marketing strategies in small and specialty animal technology. The curriculum includes identification, anatomy, physiology, nutrition, health, selection and care of small animals such as dogs, cats, rabbits, companion birds, ostriches, emus, tropical fish, and furbearers. Content will be enhanced with appropriate applied scientific laboratory activities and computer applications. Leadership development will be provided through FFA.

Forestry
Grades: 10-12 Credits: 1
This course introduces the science of silviculture. The course includes career opportunities, tree identification, tree production, forestry management, timber harvesting, wood utilization and the environmental and ecological aspects of forestry. Content may be enhanced with appropriate computer applications. Leadership development will be provided through FFA.

Agriscience
Grades: 9-12 Credits: 1
Agriscience introduces the scientific agricultural approach to animal science and selection, and plant and land science. Agricultural career opportunities will be emphasized in each class. Laboratory experiences relating to basic and current technology will be part of the program. Content may be enhanced by utilizing appropriate computer applications. Leadership development will be provided through FFA.

Agribusiness/Farm Management
Grades: 10-12 Credits: 1
This course introduces the free enterprise system, the study of economic principles, risk management, business law, budgets, finance, recordkeeping, and careers in agribusiness. Basic skills will be developed to manage a farm or agribusiness. Material will include: managing production/inventory, equipment, credit and taxes, market analysis and developing a business/farm plan. Content may be enhanced with appropriate computer applications. Leadership development will be provided through FFA.

Food Science & Technology
Grades: 10-12 Credits: 1
Food Technology introduces the issues of food production, nutrition, food chemistry and the development of food products in a global society. The government regulations regarding foods and the exploration of career opportunities will also be covered. Content may be enhanced with appropriate computer applications. Leadership development will be provided through FFA.

Ag. Sales and Marketing
Grades: 10-12 Credits: 1
This course provides an introduction to agricultural sales and marketing. Course material will include: competition in the agriculture market place, marketing decisions, types of markets, contracting, government programs and regulations, personal development, employee and employer responsibilities, communications, promotion strategies, records, files, purchasing materials, stocking, selling and business account procedures. Content may be enhanced with appropriate computer applications. Leadership development will be provided through FFA.

Veterinary Science
Grades: 10-12 Credits: 1
This course introduces students to the field of veterinary science. Major topics include veterinary terminology, safety, sanitation, anatomy/physiology, clinical exams, hospital procedures, parasitology, posology, laboratory techniques, nutrition, disease, office management, and animal management. Careers are also explored. Leadership development will be provided through FFA.

Plant Science/Crop Technology
Grades: 10-12 Credits: 1
This online course describes the theories, principles, and science of crop production through the ICEV coursework. Course materials are online and students can earn an industry certification with successful completion of the coursework and completing an exam at the end of the course for certification.

Wildlife Resources
Grades: 10-12 Credits: 1
This course describes theories, principles and science of producing, managing, preserving and improving wildlife resources, including habitat management, harvesting, and marketing. Students learn about various ecosystems and how they relate to wildlife management, game laws and management, hunting opportunities and safety. Students will also have the opportunity to design, plan and implement wildlife management plans for various game animals.

ARTS & HUMANITIES

Fundamentals of Art
Grades: 9-12 Credits: 1
This course covers beginning drawing, painting, watercolor, acrylic, two dimensional designs, a and beginning to ceramics, printmaking, weaving, collage/mixed media arts, charcoal, pastel and colored pencil drawing. Students will be required to turn in two out-of-class sketches every two weeks. It includes the study of principles of design and elements of art along with introduction to Art appreciation and Art history.

2-D Art
Grades: 10-12 Credits: 1
Prerequisites: Fundamentals of Art
This second year Art covers advanced drawing in perspective, figure, and other areas. Use of different drawing media: for example pen and ink wash, charcoal, collage, mixed media, weaving/fiber arts, and printmaking will be done at a more advanced and larger scale. An in-depth study of color theory and advanced painting techniques will be applied. Art appreciation and Art history will also be covered. Students will be required to turn in two out-of-class sketches every two weeks.

3-D Art
Grades: 10-12 Credits: 1
Prerequisites: Fundamentals of Art
This course includes advanced studies in a variety of media, including assemblage, weaving/fiber arts and mixed media along with three dimensional (sculpture, ceramics) work. Students should have a serious interest in art. Those interested in an art-related career will begin to develop a portfolio for postsecondary schools.

Independent Study Art
Grade: 12 Credits: 1
Prerequisites: Fundamentals of Art, 2D Art, 3 D Art and teacher approval.
Students will utilize a variety of artistic mediums focused upon developing a body of work organized around a central focus. The student will be required to display all work in a "one-man show" at the end of the course. Students will also study artworks from our artistic heritage based upon their connection to the selected focus. Students will practice art analysis, describing their artistic intent and development in conjunction with the art making activities. Those interested in an art-related career will develop a portfolio suitable for postsecondary schools.

Dual Credit Art Appreciation
Grades: 11-12 Credits: 1
Prerequisite: 2.5 GPA
This is a dual credit course. This course will enable the student to earn a credit at the high school and at the postsecondary institutions. This course is aligned to the Statewide General Education Transfer Policy requirements set forth by the Kentucky Council for Postsecondary Education.

Marching Band
Grades: 9-12 Credits: 1
This course requires all members to attend band camp, unless the member has prior approval from the band director. Students will learn the basics of marching skills and music performance. Band performs at all home games, including playoffs, Saturday competitions in September and October, Christmas Parades and a Christmas Concert in December.

Concert Band
Grades: 9-12 Credits: 1
This course continues to refine the elements of music performance. Students will rehearse traditional band standards and pop selections of music. Students will perform at all home games, including playoffs, KMEA Assessment, Spring Concert in May, and graduation.

Chorus
Grades 9-12 Credits: 1
Students develop vocal skills in the context of a large choral ensemble as a means to study and perform a variety of styles. These courses are designed to develop students' vocal techniques and their ability to sing parts and include experiences in creating and responding to music.

BUSINESS

Accounting & Finance Foundations
Grades: 9-12 Credits: 1
This course will provide an introduction to both areas of accounting and finance. Topics will include banking, credit, financial literacy, career exploration, spreadsheet usage, and technical writing. The accounting principles taught in this course are based on a double-entry accounting system and include preparing bank reconciliations. Detailed career exploration in the various fields of accounting will be available. Technical writing will be provided through IPAC business plan curriculum and exploration of case studies. Leadership development will be provided through FBLA.

Personal Finance
Grades: 9-12 Credits: 1
The goal of the Personal Finance course is to help students to become financially responsible, conscientious members of society. To that end, this course develops student understanding and skills in such areas as money management, budgeting, financial goal attainment, the wise use of credit, insurance, investments, and consumer rights and responsibilities. Throughout the course, students also examine contemporary, real-world ethical dilemmas that individuals commonly encounter when managing their personal finances. Leadership development will be provided through FBLA and/or DECA.

Office Administration
Grades: 10-12 Credits: 1
This course is designed to provide students an advanced level of experiences that will propel them into the 21st century business world as they serve in positions such as college interns, administrative assistants, graduate assistants, and assistant managers. While using high levels of technology learned in previous classes, students will be taught fundamental business procedures such as records management, human resource management, time management software, workstation management, travel planning, financial reporting, payroll, mail procedures, effective communication skills, and ethical decision making skills. A heavy emphasis will be placed on employability skills. Students should regularly be using word processing, spreadsheet, presentation, database, desktop publishing, and email software. Leadership development will be provided through FBLA and/or DECA.

Business Communications
Grades: 9-12 Credits: 1
This course is the study of written, oral, and electronic communication in a business environment. Emphasis is on writing letters, preparing and orally presenting business reports, using the telephone in business, electronic transfer of information, using business information resources, listening and interpreting, and developing business messages. Leadership development will be provided through FBLA and/or DECA.

Business Marketing
Grades: 10-12 Credits: 1
Business and Marketing Essentials is an introductory business course which enables students to acquire a realistic understanding of business processes and activities. Students examine fundamental economic concepts, the business environment, and primary business activities. They develop an understanding of and skills in such areas as customer relations, economics, emotional intelligence, financial analysis, human resources management, information management, marketing, operations, professional development, and strategic management. Throughout the course, students are presented ethical dilemmas and problem-solving situations for which they must apply academic and critical-thinking skills. Leadership will be provided through FBLA and/or DECA.

Financial Management
Grades: 10-12 Credits: 1
Prerequisite: Accounting and Finance Foundations
Financial Management introduces students to a wide range of financial analysis, managerial decision making, and financial accounting concepts and skills including performance metrics, cash-flow management, expense-control strategies, depreciation and obsolescence evaluation, the accounting cycle, and much more. Students prepare and interpret financial statements, forecast sales, develop budgets, and conduct multiple forms of financial analysis. Financial regulations, accounting standards, and financial information technology are also emphasized throughout the course. Leadership development will be provided through FBLA and/or DECA.

Marketing Principles
Grades 9-12 Credits: 1
Marketing Principles introduces students to the dynamic processes and activities in marketing. The course develops student understanding and skills in the functional areas of marketing, as well as business law, communication skills,

customer relations, economics, human resources management, and operations. Current technology will be used to acquire information and to complete activities. Throughout the course, students are presented ethical dilemmas and problem-solving situations for which they must apply academic and critical thinking skills. Leadership development will be provided through FBLA and/or DECA.

Marketing Applications
Grades 11-12 Credits: 1
Marketing Applications furthers student understanding and skills in the various marketing functions. Students discuss the nature of marketing plans, examine factors impacting pricing decisions, identify the effects of product life cycles on marketing, and determine elements of the promotional mix. Effective communication skills are also stressed throughout the course. Current technology will be used to acquire information and to complete the projects. Throughout the course, students are presented problem-solving situations for which they must apply academic and critical-thinking skills.

DIESEL TECHNOLOGY

Introduction to Diesel Technology
Grade: 9 Credits: 1
This is an entry level course which gives students necessary knowledge needed to continue in the Diesel Technology Pathway. The diesel program focuses on the skills needed to analyze malfunctions and repair, build and maintain construction equipment, farm equipment, or medium and heavy trucks. This program includes climate control, computer fundamentals, mechanical concepts, introduction to diesel engines, and introduction to maintenance welding. Leadership and professionalism will be provided through SkillsUSA and the Professional Development Program.

Inspection, Maintenance, & Minor Repair
IMMR A & IMMR C
Grades: 10-12 Credits: 2
These courses introduce the student to the tasks/standards included in the Inspection, Maintenance, and Minor Repair. The tasks included in the Inspection, Maintenance and Minor Repair option are entry-level technician inspection tasks designed to introduce the student to correct procedures and practices of vehicle inspection in a teaching/learning environment. These courses will instruct the student in the principles, theories, and concepts of Medium/Heavy Duty Diesel Truck Technology, and include instruction on Diesel Engines, Brake Systems, Electrical/Electronic Systems, Suspension and Steering Systems, Drivetrains, Preventive Maintenance and Engine Performance Systems. In all areas, appropriate theory, safety, and support instruction will be taught and required for performing each task. The instruction will also include identification and use of appropriate tools and testing/measurement equipment required to accomplish certain tasks. The student will also receive the necessary training to locate and use current reference and training materials from accepted industry publications and resources, and demonstrate the ability to write work orders.

Inspection, Maintenance, & Minor Repair
IMMR B & IMMR D
Grades: 10-12 Credits: 2
These courses introduce the student to the tasks/standards included in the Inspection, Maintenance, and Minor Repair. The tasks included in the Inspection, Maintenance and Minor Repair option are entry-level technician inspection tasks designed to introduce the student to correct procedures and practices of vehicle inspection in a teaching/learning environment. These courses will instruct the student in the principles, theories, and concepts of Medium/Heavy Duty Diesel Truck Technology, and include instruction on Diesel Engines, Brake Systems, Electrical/Electronic Systems, Suspension and Steering Systems, Drivetrains, Preventive Maintenance and Engine Performance Systems. In all areas, appropriate theory, safety, and support instruction will be taught and required for performing each task. The instruction will also include identification and use of appropriate tools and testing/measurement equipment required to accomplish certain tasks. The student will also receive the necessary training to locate and use current reference and training materials from accepted industry publications and resources, and demonstrate the ability to write work orders.

Medium/ Heavy Duty Truck Service Technician
TST A & TST C
Grades: 11-12 Credits: 2
These courses present the theory, component identification, operation, diagnosis, and the service and repair of Medium/Heavy Duty Truck Diesel Engines, Brake Systems, Electrical/Electronic Systems, Suspension and Steering Systems, Drivetrain Systems, Engine Performance Systems, and Preventive Maintenance. In all areas, appropriate theory, safety, and support instruction will be taught and required for performing each task. The instruction will also include identification and use of appropriate tools and testing/measurement equipment required to accomplish certain tasks. The student will also locate and use current reference and training materials from accepted industry publications and resources, and write industry standard work orders. Courses A, B, C and D can be completed in any sequence. Prerequisite: Completion of all Inspection, Maintenance and Minor Repair (IMMR) courses, (Sections A, B, C and D).

Medium/ Heavy Duty Truck Service Technician
TST B & TST D
Grades: 11-12 Credits: 2
These courses present the theory, component identification, operation, diagnosis, and the service and repair of Medium/Heavy Duty Truck Diesel Engines, Brake Systems, Electrical/Electronic Systems, Suspension and Steering Systems, Drivetrain Systems, Engine Performance Systems, and Preventive Maintenance. In all areas, appropriate theory, safety, and support instruction will be taught and required for performing each task. The instruction will also include identification and use of appropriate tools and testing/measurement equipment required to accomplish certain tasks. The student will also locate and use current reference and training materials from accepted industry publications and resources, and write industry standard work orders. Courses A, B, C and D can be completed in any sequence. Prerequisite: Completion of all Inspection, Maintenance and Minor Repair (IMMR) courses, (Sections A, B, C and D).

FAMILY AND CONSUMER SCIENCES

FACS Essentials
Grade: 9 Credits: 1
Units on the following subjects will be studied: relationships, career and family, consumer economics and foods. In a cooperative learning setting, students learn information and skills with a greater level of understanding which promotes higher self-esteem, take responsibility for their own learning, and view each other as valuable resources.

Child Development Services I
Grades: 9-12 Credits: 1
The Child Care Development Services curriculum targets the student who is interested in a number of careers in child development: childcare/education teacher or director, pediatric nurse, nanny, child psychologist, childcare assistant, to list a few. The students completing this program should be encouraged to enter post-secondary programs at a vocational-technical school, university, or college. .

Child Development Services II
Grades: 10-12 Credits: 1
Prerequisite: Child Development Services I
This course is a continuation of Child Development Services I and is designed for students who wish to further their education in the area of childcare and development. Students gain in-depth work experiences in child care establishments. Students will practice interviewing skills.

Early Lifespan Development
Grades: 10-12 Credits: 1
This course addresses the practical problems related to understanding the types and stages of human growth and development. Meeting the needs of infants, toddlers, and preschool children is stressed with an in-class play school. Careers in child/human development are explored.

Parenting
Grades: 10-12 Credits: 1/2
This course is designed to aid students in developing parenting and care-giving skills that can be applied in a variety of situations. Major topics include: being an informed parent; caring for the newborn; being an effective parent/caregiver; and caring for a sick child. Careers in childcare are explored.

Relationships
Grades: 10-12 Credits: 1/2
The objectives in this course are to develop self-understanding, enabling one to understand others better, improve interpersonal skills both within and outside the family, be more considerate of other people's needs and property, and maintain mental and emotional wellness. Family life education comprises a portion of this course, including dating and married relationships. Preparations for the achievement of a successful marriage are emphasized.

FOREIGN LANGUAGE

Spanish I
Grades: 9-12 Credits: 1
This course is designed for students with little or no knowledge of the Spanish language. It is an introduction to the language, its basic linguistic components, and the cultures of the Spanish-speaking countries. Students will learn basic vocabulary and grammar. The emphasis will be on the three modes of communication: interpretive (reading & listening), interpersonal, and presentational (speaking & writing) as well as cultural knowledge at a beginning level.

Spanish II
Grades: 10-12 Credits: 1
Prerequisite: Spanish I
This course is a continuation of the language skills taught in Spanish I with the expectation that, by the end of the course, students will be performing at the beginning up to the novice high level, according to the Kentucky World Language Proficiency Standards.

HEALTH & PE

Health
Grades: 8-12 Credits: ½
This is a required course for graduation. This course explores the dimensions of wellness with emphasis on lifestyle choices that can reduce the risks for health problems and/or premature death.

Physical Education I
Grade: 9 Credits: ½
This course is a required course for graduation. Students engage in exercise and conditioning. They learn fundamental skills and rules in a variety of sports activities.

Weightlifting & Conditioning Principles
Grades: 9-12 Credits: 1
This course emphasizes improvement in flexibility, strength, and endurance. Weight training fundamentals are included with safety highlighted throughout the course. Periodic assessments are made so students can see progress.

Advanced Physical Education
Grades: 10-11 Credits: 1
This course offers advanced skills in team sports and physical activity with an emphasis on conditioning.

JROTC

Army JROTC
Leadership, Education, & Training: LET I
Grades: 9-12 Credits: 1
The mission of Leadership Education and Training (LET) is to motivate young people to be better citizens. To accomplish this purpose, the text discusses citizenship, leadership, and a number of other courses designed to help the cadets succeed in high school and after graduation. Cadets wear uniforms that are provided by the program on designated days, special events and competitions. The LET 1 Level consists of: Foundations of Army JROTC, Being A Leader, Leadership Skills, Know Yourself-Socrates, Learning to Learn, Study Skills, Communication Skills, and Conflict Resolution. Extracurricular activities include: Color Guard, Drill team, and Rifle team competition, and participation in local community events. LET 1 is for 9-12 grades and completion is required prior to participating in the next level.

Army JROTC
Leadership, Education, & Training: LET II
Grades: 10-12 Credits: 1
The second year of Leadership Education and Training is split into units including: Techniques of Communication, Leadership, Cadet Challenge, Leadership Lab, First Aid, Map Reading, History, Your American Citizenship, Career Opportunities, and Role of the U.S. Army. The wearing of the uniform and extracurricular activities are the same as for LET I. LET 2 is for 9-12 grades and completion is required prior to participating in the next level.

Army JROTC
Leadership, Education, & Training: LET III
Grades: 11-12 Credits: 1
The third year of Leadership Education and Training provides additional leadership situations. In this year students will not only be more involved as teachers and leaders within the cadet battalion, but they will also do more independent studies in the areas of communication, leader, first aid, history, map reading, career opportunities, and technology awareness. The wearing of the uniform and the extracurricular activities are the same as for LET I. LET 3 is for 9-12 grades and completion is required prior to participating in the next level.

Army JROTC
Leadership, Education, & Training: LET IV
Grade: 12 Credits: 1
The fourth-year cadets are responsible for the daily cadet administration and perform as commanders and staff officers. They act as assistant instructors in some subject areas for other JROTC classes. They continue to develop their leadership skills and plan special unit events such as the military ball and the annual awards banquet as well as several Leadership camps.

WELDING TECHNOLOGY

Basic Blueprint Reading & Welding
Grades: 9-12 Credits: 1
This course provides a study of occupationally specific prints for welders. Occupational specifics including welding drawings, symbols, joint types, grooves, pipe welding symbols, testing symbols and specification interpretations are stressed. This course also serves as an introduction to the basic welding methods and positions, including hands-on activities in the welding shop.

Cutting Processes
Grades: 10-12 Credits: 1
This course is designed to provide the student with a working knowledge of various cutting processes used by the welding industry. This course will include, but is not limited to, safety, theory of operation, setup and operating techniques, troubleshooting and making minor equipment repairs, terms and definitions, identification, evaluation, pair and prevention of discontinuities of cut surfaces when cutting with OFC, PAC, Air Carbon ARC, SMAC, Exothermic, and Mechanical Cutting Processes.

Shielded Metal Arc Welding
Grades: 10-12 Credits: 1
This course is designed to teach students the identification, inspection, and maintenance of SMAW electrodes, principles of SMAW, the effects of variables on the SMAW process and weld plate and pipe, and metallurgy.

Gas Metal Arc Welding
Grades 10-12 Credits: 1
This course is designed to teach students the identification, inspection, and maintenance of GMAW machines, identification, selection and storage of GMAW electrodes, principles of GMAW and the effects of variables on their GMAW process. Theory and applications of related processes such as FCAW and SAW and metallurgy are also included.

LANGUAGE ARTS

English 1
Grade: 9 Credits: 1
This course will develop students' language arts abilities in reading, writing, speaking, and thinking gained in elementary and middle school. Students will study a variety of types of literature and practice the stages of the writing process by composing for a variety of purposes and audiences. They will also refine their abilities to handle conventional matters of punctuation, spelling, and usage within the context of writing. Writing experiences are not restricted to responding to and interpreting literature.

Honors English I
Grade: 9 Credits: 1
This is an honors level class of English I. This class will cover more material than the regular English class and will move at a faster pace. Special attention to writing about literature is given in the pre-college curriculum.

English II
Grade: 10 Credits: 1
This course continues the refinement of students' skills in language arts. Students will read, respond to and interpret a variety of types of literature and journalistic writings and continue their study of the writing process, re-enforcing their writing skills by addressing a variety of audiences and purposes. Student writing in context is used as the basis for teaching the skills of mechanics and usage.

Honors English II
Grade: 10 Credits: 1
This is an honors level class of English II. The class will cover more material than the regular English II class and will move at a faster pace. Special attention to writing about literature is given in the pre-college curriculum.

English III
Grade: 11 Credits: 1
This course continues to develop students' competencies in language arts skills. It includes instruction in oral and written composition; study skills and reference and research techniques, and the historical, cultural, and aesthetic significance of American Literature. Continuing to practice the steps in the writing process, students write for a variety of purposes and audiences. Mechanics and usage are taught within the context of students' compositions.

Honors English III
Grade: 11 Credits: 1
This is an honors level class of English III. The class will cover more material than the regular English II class and will move at a faster pace. Special attention to writing about literature is given in the pre-college curriculum.

English IV
Grade: 12 Credits: 1
This course offers continued refinement of pupils' abilities in language arts skills. Content includes appropriate experiences in oral and written composition and the historical, cultural, and aesthetic significance of English and/or World Literature. Continuing to write for a variety of purposes and audiences, students attain confidence in handling the stages of the writing process. Special attention to writing about literature is given in the pre-college curriculum. Language and mechanics concerns are dealt with within the context of student writing.

Dual Credit English IV
Grade: 12 Credits: 2
Prerequisites: Minimum 2.5 GPA and *either* a minimum ACT English score of 18 or an ACT Reading score of 20
Focuses on academic writing. Provides instruction in drafting and revising essays that express ideas in Standard English, including reading critically, thinking logically, responding to texts, addressing specific audiences, researching, and documenting sources. Includes review of grammar, mechanics, and usage.

Yearbook
Grades: 10-12 Credits: 1
Content for this course may vary. Possible topics include yearbook production, publication, format, layout, photographs, and financial management.

MATHEMATICS

Algebra I
Grade: 9 Credits: 1
Algebra 1 is a first year course in the study of algebraic expressions, equations, inequalities, and functions. Some of the topics covered include simplifying expressions, real numbers, solving equations/inequalities, graphing equations/inequalities, writing linear equations/inequalities, absolute value equations/inequalities, systems of equations/inequalities, direct and inverse variation, exponents and exponential functions, polynomials, factoring, quadratic equations, rational expressions/equations, radicals, and connections to geometry.

Honors Algebra I
Grade: 9 Credits: 1
Algebra 1 is a first year course in the study of algebraic expressions, equations, inequalities, and functions. Some of the topics covered include simplifying expressions, real numbers, solving equations/inequalities, graphing equations/inequalities, writing linear equations/inequalities, absolute value equations/inequalities, systems of equations/inequalities, direct and inverse variation, exponents and exponential functions, polynomials, factoring, quadratic equations, rational expressions/equations, radicals, and connections to geometry.

Geometry
Grade: 10 Credits: 1
Geometry is a course in logic, proof, and measurement. Students will develop their ability to construct formal, logical arguments and proofs in geometric settings and problems. Some of the topics covered include definitions, postulates, and theorems regarding angles, segments and lines, arcs, congruent triangles, similar triangles, special quadrilaterals, parallel lines, circles, coordinate geometry, area and volume formulas, transformations, constructions, and right triangle trigonometry.

Honors Geometry
Grade: 10 Credits: 1
Geometry is a course in logic, proof, and measurement. Students will develop their ability to construct formal, logical arguments and proofs in geometric settings and problems. Some of the topics covered include definitions, postulates, and theorems regarding angles, segments and lines, arcs, congruent triangles, similar triangles, special quadrilaterals, parallel lines, circles, coordinate geometry, area and volume formulas, transformations, constructions, and right triangle trigonometry.

Algebra II
Grade: 11 Credits: 1
Algebra 2 is a math course in the study of algebraic expressions, equations, inequalities, and functions. This course complements and expands the mathematical content and concepts of Algebra 1 and Geometry. Some of the topics covered include complex numbers, exponents, radicals, matrices, systems of linear equations, functions (absolute value, exponential, logarithmic, quadratic, radical, polynomial, and rational) and their behavior, solving nonlinear equations, conic sections, combinatorics, probability, and sequences/series.

Honors Algebra II
Grade: 11 Credits: 1
Algebra 2 is a math course in the study of algebraic expressions, equations, inequalities, and functions. This course complements and expands the mathematical content and concepts of Algebra 1 and Geometry. Some of the topics covered include complex numbers, exponents, radicals, matrices, systems of linear equations, functions (absolute value, exponential, logarithmic, quadratic, radical, polynomial, and rational) and their behavior, solving nonlinear equations, conic sections, combinatorics, probability, and sequences/series.

Dual Credit College Algebra
Grade: 12 Credits: 1
Length: 1 semester
Prerequisites: Successful completion of Algebra I, Geometry, and Algebra II, a minimum 2.5 GPA, ACT math score of at least 19 or passing KYOTE math score

Dual Credit College Algebra is a course which emphasizes a better understanding of functions and their applications and strengthens students' mathematical reasoning and problem-solving skills. The course is a dual credit class meaning that students will receive high school and college credit. Some of the topics covered include linear functions, quadratic functions, complex numbers, polynomial functions, rational functions, exponential functions, and logarithmic functions.

Dual Credit College Math
Grade: 12 Credits: 1
Length: 1 semester
Prerequisite: 2.5 GPA
This is a dual credit course. This course will enable the student to earn a credit at the high school and at the postsecondary institutions. This course is aligned to the Statewide General Education Transfer Policy requirements set forth by the Kentucky Council for Postsecondary Education. Some of the topics covered include set theory, real numbers, exponent rules, scientific notation, linear equations, the metric system, and consumer math topics

Dual Credit Trigonometry
Grade: 12 Credits: 1
Length: 1 semester
Prerequisite: Successful completion of College Algebra is required.
This is a dual credit course. This course will enable the student to earn a credit at the high school and at the postsecondary institutions. This course is aligned to the Statewide General Education Transfer Policy requirements set forth by the Kentucky Council for Postsecondary Education. Some of the topics covered include trigonometric functions, acute angles and right triangles, radian measure and the unit circle, graphs of the circular functions, and trigonometric identities.

Advanced Topics in Mathematics
Grade: 12 Credits: 1
Length: 1 semester
Advanced Topics in Mathematics is a course which emphasizes a better understanding of functions and their applications and strengthens students' mathematical reasoning and problem-solving skills. Some of the topics covered include linear functions, quadratic functions, complex numbers, polynomial functions, exponent rules, rational expressions, and radical expressions.

Technical Math
Grade 12 Credits: 1
This course is designed for students who have completed courses containing all the required high school Kentucky Academic Standards for Mathematics. Some mathematical concepts from algebra, geometry, and trigonometry and applications relevant to these topics, beyond what was addressed in the student's foundational courses, are studied. Topics to be covered include unit conversions, variation, measurement of geometric figures and angles. Emphasis is on applications in the various technologies especially construction related math . A Technical Mathematics course may include, but is not limited to, topics found in the (+) standards of the Kentucky Academic Standards for Mathematics.

Dual Credit Calculus
Grade: 12 Credits: 1
Prerequisites: Successful completion of Algebra I, Geometry, Algebra II, College Algebra, Trigonometry, & teacher recommendation
High School Calculus is a first year calculus course. Some of the topics covered include limits, continuity, derivatives, applications of derivatives (related rates, curve-sketching, optimization), integrals, applications of integrals (volumes, accumulation of change, differential equations), and techniques of integration.

Engineering I
Grades 9-12 Credits: 1
Engineering I offers an overview of the basic engineering principles & concepts that shape today's modern world. Through real world problem-solving and the design process, students learn how to critically think & develop solutions to a broad range of topics. Students utilize a 2-D & 3-D modeling software known as AutoDesk Inventor & AutoCAD, as well as physical models to construct, test, collect, and report data.

Introduction to Programming
Grades: 9-12 Credits: 1
Prerequisite: Algebra I
This course focuses on the general writing and implementation of generic and atomized programs to drive operating systems. Instruction includes software design, languages, and program writing, and troubleshooting. Students are introduced to fundamental programming concepts using an industry-specific or emerging programming language. Includes data types, control structures, simple data structures, error-handling, modular programming, information and file processing, and uniqueness of the language used in the course. Students spend at least 20 hours programming and applying learned concepts through programming. Programming is defined, by the K-12 CS Framework, as the craft of analyzing problems and designing, writing, testing, and maintaining programs to solve them.

AP Computer Science
Grades: 10-12 Credits: 1
Prerequisite: Successful completion of Introduction to Programming
AP Computer Science Principles is designed to introduce students to the central ideas of computer science, to instill ideas and practices of computational thinking, and to have students engage in activities that show how computing changes the world. The course is rigorous and rich in computational content, includes computational and critical thinking skills, and engages students in the creative aspects of the field. Through both its content and pedagogy, this course aims to appeal to a broad audience. Teachers select the programming language(s) that is most appropriate for their students. Students spend at least 20 hours programming and applying learned concepts through programming. Programming is defined, by the K-12 CS Framework, as the craft of analyzing problems and designing, writing, testing, and maintaining programs to solve them.

HEALTH SCIENCE

Principles of Health Science
Grades: 9-12 Credits: 1
Orientation and foundation for occupations and functions across the health care cluster. Includes broad health care core standards which specify the knowledge and skills that the vast majority of healthcare workers should have. Prerequisite to additional courses in the Health Science Program.

Emergency Procedures & Medical Terminology
Grades: 10-12 Credits: 1
An intense study of the medical language used in all health career major areas. Pronunciation, spelling and application rules of medical terminology are included. This course is intended to combine all existing courses in the Health Science Cluster to include foundational emergency skills for all Health Science Career Pathway students. This course will include certifications in: Cardiopulmonary Resuscitation for the Healthcare Provider; AED; bloodborne pathogen; first aid; and emergency care as outlined by an approved first aid/CPR/Bloodborne Pathogen certifying agency as put forth by the American Heart Association, National Safety Council or American Red Cross.

Body Structures & Functions
Grades: 10-12 Credits: 1
This course is designed to provide knowledge of the structure and function of the human body with an emphasis on normalcy. The interactions of all body systems in maintaining homeostasis will promote an understanding of the basic human needs necessary for health maintenance. Academic knowledge from life science core content as it relates to the human body (including anatomy and physiology) are included. Laboratory activities should be a part of the course when appropriate.

Medicaid Nurse Aid (MNA)
Grades: 12 Credits: 1
An instructional program that prepares individuals to perform routine nursing-related services to patients in hospitals or long-term care facilities, under the training and supervision of an approved registered nurse or licensed practical nurse. State Registry is available upon successful completion of state written and performance examination. Prior to offering this course, the instructor and health science program must be approved for meeting state requirements set by the Cabinet for Health and Family Services.

Pharmacy Technician
Grades: 11-12 Credits: 1
This is an online (computer assisted) or traditional course with a pharmacy internship that prepares students for the National Pharmacy Technician Certification (CPhT). You will gain the skills and knowledge to qualify for entry-level positions in a hospital or retail setting.

SCIENCE

Integrated Science I
Grade: 9 Credits: 1
This course gives the student the basic knowledge for successful completion of high school science. This is a required course that includes the study of earth/space, chemical, and physical sciences.

Honors Integrated Science I
Grade: 9 Credits: 1
This course gives the student the basic knowledge for successful completion of high school science. This fulfills a course requirement that includes the study of earth/space, chemical, and physical sciences. The course is accelerated in nature and will delve deeper into the selected topics and cover additional standards.

Biology
Grade: 11 Credits: 1
Prerequisite: Integrated Science I
This course is designed to provide the opportunity for the student to develop functional understandings of the complex interactions within the living and non-living environments and their role in these interactions.

Honors Biology
Grade: 11 Credits: 1
Prerequisite: Integrated Science I
This course is designed to provide the opportunity for the student to develop functional understandings of the complex interactions within the living and non-living environments and their role in these interactions. The course is accelerated in nature and will delve deeper into the selected topics and cover additional standards.

Chemistry
Grade: 10 Credits: 1
This is an introductory course in which students will attain a conceptual understanding of the major concepts in chemistry, many problem solving skills, and basic laboratory techniques.

Anatomy & Physiology
Grades: 11-12 Credits: 1
Prerequisite: Chemistry I
This course focuses on the important organs and organ systems of the human body. It considers both structures and functions and incorporates lecture and dissection in achieving this. It will incorporate current health-related issues and lab exercises to illustrate various anatomical and physiological concepts. The students will be active participants in the learning process, doing lots of hands-on activities.

Dual Credit Biology
Grade: 12 Credits: 1
Prerequisite: Successful completion of Integrated Science I, Chemistry, and Biology along with a minimum 2.5 GPA
Length: 1 semester
The dual credit course is designed to allow high school students the opportunity to earn college credit or to gain advanced placement in the college courses in which they enroll. The activities of this course will be directed with this goal in mind.

SOCIAL STUDIES

Integrated Social Studies
Grade: 9 Credits: 1
This course examines the basic structures of governments and institutions. The relationship of power and decision-making are examined through the study of the Constitution of the United States and the amendments, other historical documents, the State Constitution, and local governing bodies. Democratic values and citizen participation are stressed throughout the course. Student participation in the community will also be encouraged.

World Civilization
Grade: 10 Credits: 1
This course is a study of world civilizations and their cultures from A.D. 1500 through the present, with particular attention given to Western Civilization. Students examine man's development and the growth of institutions (political, social, geographic, and religious), with emphasis given to the world today. Geographic concepts will be incorporated into the course as they relate to the world today.

U.S. History
Grade: 11 Credits: 1
The course will begin with the colonization of America and continue to the present. It will look at the forces that influenced and shaped the development of our institutions and way of life. Emphasis will be given to conflicting issues of the 20th century, politically, economically, and socially, as the U.S. grows from an agricultural society to a manufacturing society and finally to a service-based society.

AP Human Geography
Grade: 9 Credits: 1
This course is equivalent to an introductory college-level course in human geography. The course introduces students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of Earth's surface. Students employ spatial concepts and landscape analysis to examine socioeconomic organization and its environmental consequences. They also learn about the methods and tools geographers use in their research and applications. College credit is earned with a qualifying score on an AP exam.

AP European History
Grade 10: Credits: 1
AP European History is designed to be the equivalent of a two-semester introductory college or university European history course. In AP European History students investigate significant events, individuals, developments, and processes in four historical periods from approximately 1450 to the present. Students develop and use the same skills, practices, and methods employed by historians: analyzing primary and secondary sources; developing historical arguments; making historical comparisons; and utilizing reasoning about contextualization, causation, and continuity and change over time. The course also provides six themes that students explore throughout the course in order to make connections among historical developments in different times and places: interaction of Europe and the world; poverty and prosperity; objective knowledge and subjective visions; states and other institutions of power; individual and society; and national and European identity. College credit is earned with a qualifying score on an AP exam.

AP U.S. History
Grade: 11 Credits: 1
This is a college level course that requires application for admission before the student may take the course. A list of qualifications may be obtained from the instructor. The goal of this course is for the students to take the AP exam in May in hopes of gaining college credit. This course covers American History from the colonial period to the present. The students can expect to learn not only factual knowledge but also to improve their study, writing, and test-taking skills. Students should expect to spend more time on this course than on the average high school course. Students are encouraged to take the AP Exam.

Barren County Area Technology Center

Career Readiness Pathways

HCHS students who have obtained an appropriate number of credits may enroll in Pathways at the Barren County ATC. These vocational students will be transported to Barren County ATC for the am or the pm session of classes in his/her pathway. Students are expected to complete their pathway and obtain career readiness through an End of Course Exam or Industry Certification.

Business Management

- Accounting & Finance Foundations
- Personal Finance
- Digital Literacy
- Introduction to Business Management
- Principles of Entrepreneurship
- Business Co-op

Environmental Control System Servicer Technician

- Refrigeration Fundamentals
- HVAC Electricity
- Electrical Components
- Heating & Humidification
- Co-op (Air Cond)

Carpenter Assistant

- Intro to Construction Technology
- Floor & Wall Framing
- Ceiling & Roof Framing
- Construction Prints & Industrial Safety
- Site Layout & Foundations
- Co-op (carpentry)

Industrial Electrician Assistant

- Electrical Construction I
- Electrical Construction II
- Circuits I
- Electric Motor Controls I
- Rotating Machinery Electrical Motor Controls

Allied Health

- Principles of Health Sciences
- Emergency Procedures & Medical Terminology
- Body Structures & Functions

Pharmacy Technician

- Principles of Health Sciences
- Emergency Procedures & Allied Health Core
- Body Structures & Functions
- Internship: Pharmacy Tech

Pre-Nursing

- Principles of Health Sciences
- Emergency Procedures & Allied Health Core
- Body Structures & Functions
- Medicaid Nurse Aide (State Registered Nurse Aid)
- Medicaid Lab Aide (Phlebotomist Certification)

Information Support & Services

- Computer Literacy
- Computer Hardware & Software Maintenance

Network Security

- Computer Literacy
- Computer Hardware & Software Maintenance
- Introduction to Networking Concepts
- Security Fundamentals

Architectural Technology

- Introduction to Computer Aided Drafting (Design & Engineering I)
- Introduction to Architecture
- Industrial Drafting Process (Mechanical Design)
- Special Problems (Parametric Modeling)
- Engineering Graphics (Mechanical/Industrial Drafting Processes)

Machinist Operator

- Fundamentals of Machine Tools- A
- Fundamentals of Machine Tools- B
- Applied Machining – I
- Applied Machining – II
- Manual Programming
- Blueprint Reading for Machinists

Welder-Entry Level

- Blueprint Reading for Welding
- Oxy-fuel Systems
- Shielded Metal Arc Welding (SMAW)
- SMAW Groove Welding with Backing Lab
- Gas Metal Arc Welding
- Gas Tungsten Arc Welding
- Co-op (Welding)

Automotive Maintenance & Light Repair Technician

- Automotive Maintenance & Light Repair Section A
- Automotive Maintenance & Light Repair Section B
- Automotive Maintenance & Light Repair Section C
- Automotive Maintenance & Light Repair Section D

Caverna High School Career Readiness Pathways Vocational Partnerships

Industrial Maintenance (Offered through Barren County Vocational Partnership to HCHS & Caverna)

- Industrial Maintenance Electrical Principles
- Maintaining Industrial Equipment
- Fluid Power
- Robotics & Industrial Automation

Culinary & Food Services (Offered to HCHS Students at Caverna High School)

- Fundamentals of Culinary Arts
- Foods & Nutrition
- Advanced Foods & Nutrition
- Culinary I & II

Principles of Hospitality (Offered to HCHS Students at Caverna High School)

- Fundamentals of Culinary Arts
- Principles of Hospitality
- Special Services of Hospitality

BioMedical Sciences (Offered to HCHS Students at Caverna High School)

- Principles of Biomedical
- Human Body Systems
- Medical Intervention
- Biomedical Innovations