

Schedule of Courses 2010 – 2011

George Rogers Clark High School

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A LETTER TO STUDENTS

Dear Students,

As you begin planning for the next school year, we would like to remind you of the services offered through the Counseling Center. Your counselor will assist you in making the best possible use of the opportunities, both curricular and extracurricular, available at G. R. C. This means planning the best course of study for you and gathering information about your career and post-secondary educational plans. You are encouraged to become acquainted with your counselor and the services available through the Counseling Center. Your counselor looks forward to knowing you and helping you have a valuable and enjoyable high school experience.

Sincerely,

G. R. C. Counseling Staff

STUDENTS AND PARENTS

Due to scheduling deadlines, this booklet was prepared prior to the completion of the school district's 2010 –2011 budget, which determines, in part, building staffing and programs. Because of this, some course offerings may be withdrawn after the scheduling process has begun.

Scheduling of Courses 2010 – 2011

This course description booklet will help you plan your program of courses for your years at George Rogers Clark. The time you spend planning your schedule will help you avoid many problems once school begins. Graduation requirements are designed to give you a well-balanced program to help develop the skills and understanding necessary to become a well-educated individual. A wide range of electives is available to help you explore and develop your special interests and abilities. The responsibility for this planning rests mainly with you. You are encouraged to seek help from your parents, teachers, and counselor. Be sure to consider the following:

I. PLAN AHEAD

- A. READ the course descriptions BEFORE selecting a subject to be sure it fits your needs and interests.
- B. CONSULT with teachers in specific subject areas for more detailed information.
- C. BALANCE your course selections. Avoid crowding all your academic courses into your Sophomore and Junior years. Allow yourself the freedom to take elective subjects each year: they are a valuable part of your total education.
- D. REMEMBER to make certain you have satisfied the prerequisites for taking a particular course.
- E. ALTERNATE courses MUST be selected in case it is impossible to get your first choice.
- F. BE SURE to take courses which will give the best possible preparation for your future plans. Take advantage of the offerings available to you.

II. KNOW REQUIREMENTS

- A. KNOW your graduation requirements before you start planning your course of study.
- B. IF you have questions about credits for graduation, college or career entrance, see your counselor.
- C. The following chart shows what credits are required for graduation and pre-college curriculum.

	CLASS OF 2011-2014				
GRADE PLACEMENT CREDITS	GRADE 10	GRADE 11	GRADE 12	PRE-COLLEGE CURRICULUM	COMMONWEALTH DIPLOMA
GRCHS GRADUATION REQUIREMENTS					A minimum of 4 AP courses and 3 AP exams in addition to regular requirements
ENGLISH	4 credits			4 credits	AP English Literature or AP English Composition
MATHEMATICS	4 credits Must include GSAT I – GSAT III (or equivalent) and 1 other			4 credits Must include GSAT I – GSAT III (or equivalent) and 1 other	AP Calculus, AP Statistics, or an AP Science
SCIENCE	3 credits Must include Interdisciplinary Science, Biology or Agribiology and Chemistry or Physics			3 credits Must include Interdisciplinary Science, Biology or Agribiology and Chemistry or Physics	AP Biology, AP Environmental Science, AP Chemistry, AP Physics, or an AP Mathematics
SOCIAL STUDIES	3 credits Must include Applied Civics, US History and World Civilization			3 credits Must include Applied Civics, US History and World Civilization	Can choose AP US History, AP Human Geography or AP European History as fourth AP course
HEALTH	1 credit			1 credit	(-----)
P. E.	0.5 credit			0.5 credit	(-----)
FOREIGN LANGUAGE	(-----)			2 credits of the same language required	AP French or AP Spanish
ARTS AND HUMANITIES	1 credit			1 credit	Can choose AP Music Theory or AP Art History as fourth AP course
PRACTICAL LIVING/VOCATIONAL SKILLS	1 credit			1 credit	(-----)
ELECTIVES	7.5 credits			5.5 credits	(-----)
TOTAL	25 credits			25 credits	(-----)
Other Requirements: Yearly Participation in CATS Yearly Completion of Individual Learning Plan Minimum Apprentice Writing Portfolio					
Students who transfer to George Rogers Clark High School who have been in a high school that offers more or less credits per year than GRCHS, will have their credits for graduation adjusted according to the total credits they have been able to earn.					

HOW TO COMPLETE YOUR SCHEDULE REQUESTS

- A. After consulting with your parents and teachers, select your courses and complete your course request sheet. Be sure you meet prerequisite requirements.
- B. List alternate choices (3 full credits) for electives (courses you would be willing to take if you cannot get your first choices).
- C. Submit your completed course request form on the scheduled date to your teacher or counselor. See your counselor if you have any questions or concerns about your schedule.
- D. A final copy of your schedule of classes will be given to you at the fall registration. Attendance the first day of school is critical. If you are not in attendance on the first day of school your schedule will be erased and on your first day of attendance, a new schedule will be created. The new schedule may be different from your original schedule and you may not be able to get all of the classes that were on your original schedule.

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FACTS YOU SHOULD CONSIDER WHEN PLANNING YOUR FUTURE YEARS

1. When planning your schedule, please remember that many colleges give extra weight to difficult classes. Students who want to get scholarships should take as many courses as possible in the areas of English, math, science, social studies and science. Scholarship committees tell us that they often do not consider students who take less demanding courses. Scholarship information is advertised in the counseling scholarship listings, on the web at www.collegeboard.com, and at many other sites. G.R.C. also lists scholarship and other pertinent student information on the G.R.C. website, www.grchs.com (click on Counseling Dept).
2. TESTS: Colleges require that students take specific tests for college admittance as well as specific programs (education, business, engineering, medical). All Juniors in KY are required to take the ACT and all Sophomores are required to take the PLAN. These scores become a part of the student's transcript. In addition to the ACT and PLAN, we strongly recommend you take the following tests:

P. S. A. T. (pre-SAT test)
S.A.T.

Junior year – October (sophomores also can take)
Junior year – March – fall semester of senior year

These tests are given on Saturdays and require a fee. Test information is in the counseling center or go to www.collegeboard.com for SAT. For ACT information, please visit www.actstudent.org.

3. ADVANCED PLACEMENT courses are offered at G.R.C. in the following areas: English Composition, English Literature, Biology, Chemistry, Physics, Environmental Science, Human Geography, European History, U.S. History, U.S. Government & Politics, Statistics, Calculus, French, Spanish, Music Theory, and Art History. Advanced Placement courses are “weighted” classes, with grades receiving 1 extra quality point toward the GPA. For example, a grade of A will receive 5 quality points instead of the standard 4 points. Students must take the AP examination in the spring semester in order to receive weighted credit for GPA calculation and KEES GPA calculation. Individual colleges and universities offer more academic scholarships to students who have successfully completed Advanced Placement (AP) courses than to those who have not taken AP.
4. THE COMMONWEALTH DIPLOMA is earned by students who take a minimum of four AP courses and who take the AP tests in 3 of the following areas: English, math or science, foreign language and an elective (any other AP course).
5. Club involvement and community service are important aspects of your high school career, especially when applying to college and for scholarship opportunities.
6. Visiting out-of-state post-secondary schools should begin during a student's junior year. In-state college visitation should be completed by December of the Senior year.
7. Students should begin applying for colleges in October of the senior year. Some applications can be made on-line. All colleges have application deadlines. It is the responsibility of the student to meet these deadlines. Give a teacher, counselor or principal two weeks notice when requesting a recommendation.
8. To qualify for financial aid, a senior must complete a F.A.F.S.A. during the Senior year. Paper forms are no longer available at GRC. Students and parents need to apply online at www.fafsa.ed.gov. Colleges also have deadline dates for financial aid. Example: U.K. is February 15.
9. What determines success in school? Many of our students do not succeed in school because they work too many hours. Research shows that students who work more than 10 – 15 hours a week have lower grades than students who work less hours. Students who are involved in extra-curricular activities have higher grades than those who are not involved in these activities. Attendance plays a big role in success in high school. Students who read for pleasure make higher scores on the A.C. T. and S. A. T. than students who do not read. These tests are timed, and because many students do not read often, they are adversely affected when they take these tests. READ! READ! READ!
10. Your counselor is interested in how you are doing in school. Please feel free to sign up to see your counselor to discuss your courses and your future plans.

Regarding schedule changes:

Schedule changes must be made during the summer or no later than the first week of school. If a student drops a full year course or a one-half credit course from his/her schedule after the first two weeks of enrollment (1 week for semester class), a grade of "F" will be recorded for the course. The course will be recorded on the student transcript with the "F" designation. The course attempt will be included when the GPA and the class rank are calculated.

If a student drops a full-year course or a one-half credit course from his/her schedule within the first two weeks of school (1 week for semester class) of enrollment, the course attempt will not be recorded on the student's transcript.

AGRICULTURE SCIENCE AND TECHNOLOGY**Intro. to Ag. Science and Tech.****Grade: 9 – 10****Credit: 1**

This course introduces students to the various segments of the agricultural industry. Local and state occupational opportunities will be emphasized. Basic animal science, plant and land science, equine science, tobacco production, global agricultural issues, environmental concerns, animal technology, and hand tool use will be introduced along with the selection and planning of an agricultural experience program and related record keeping. Leadership development will be provided through FFA. Students will receive personal guidance and counseling with preparatory instructional program selection. Students must have a willingness to learn.

Animal Science**Grade: 10 – 12****Credit: .5**

This course develops knowledge and skills pertaining to livestock identification, selection, nutrition, reproduction and genetics, health management and marketing of dairy cattle, beef cattle, sheep, swine, and poultry. The latest biogenetic applications will be included. The content may be enhanced with appropriate computer applications. Leadership development will be provided through FFA. Each student will be expected to have an agricultural experience program.

Beef Cattle Science**Grade: 10 – 12****Credit: .5**

This course develops knowledge and skills pertaining to beef cattle identification, selection, nutrition, reproduction and genetics, health management and marketing. The latest biogenetic applications will be included. The content may be enhanced with appropriate computer applications. Leadership development will be provided through FFA. Each student will be expected to have an agricultural experience program.

Equine Science**Grade: 11 – 12****Credit: .5*****Prerequisite: Teacher approval***

This course develops scientific knowledge and skills pertaining to breed identification and selection, anatomy, physiology, nutrition, genetics and reproductive management, training principles, grooming, health, disease control, and sanitation practices. Leadership development will be provided through FFA. Each student will be expected to have an agricultural experience.

Small Animal Technology**Grade: 10 – 12****Credit: .5**

This class develops the scientific knowledge and skills of animal science from selection to marketing. Instruction includes the studies of breeds, health care, feeding, training, history, and reproduction management of dogs, cats, birds, rabbits, and fish. Hands-on experiences are emphasized. Content may be enhanced by appropriate computer applications. Leadership development will be provided through FFA. Each student will be expected to have an agricultural experience program.

Agricultural Construction Skills**Grade: 10 – 12****Credit: 1**

This class prepares students to construct and maintain agricultural structures and equipment. The course develops basic skills such as: tool identification, plumbing, masonry, fencing, and calculating a bill of materials. Content may be enhanced with appropriate computer applications. Leadership development will be provided through FFA. Each student will be expected to have an agricultural experience program.

Agricultural Power and Machinery I**Grade: 11 – 12****Credit: 1**

This course provides a hands-on experience with instruction in basic principles of power and machinery operation, maintenance, service, and repair. Topics to be presented include engine components and functions, power transmission, tractors, and field machinery. Content may be enhanced with appropriate computer applications. Leadership development will be provided through FFA. Each student will be expected to have an agricultural experience program.

Agricultural Structures & Design**Grade 11 – 12****Credit: 1****Prerequisite: Must have taken Agricultural Construction Skills I or Ag. Power & Mach. I**

This course prepares students to evaluate, design and construct agricultural structures. Develops skills such as: plan evaluation and interpretation, calculating a bill of materials, and applying the skills learned in the Agricultural Construction Skills course to construct an agricultural structure. Content may be enhanced by appropriate computer applications. Leadership development will be provided through FFA. Each student will be expected to have an agricultural experience program.

Small Power and Equipment**Grade: 10 – 12****Credit: 1**

This course is designed to develop skills in maintenance, repair and operation of equipment, small combustion-type engine and electric motors. Content may be enhanced with appropriate computer applications. Leadership development will be provided through FFA. Each student will be expected to have a supervised agricultural experience program.

Greenhouse Technology**Grade: 10 – 12****Credit: 1**

This course provides instruction in greenhouse structures and greenhouse environment regulations. Plant growth and development and propagation are included as well as production and maintenance of bedding and container produced plants. Fundamental principles of vegetable production and commercial production of vegetable crops may be included. Content may be enhanced with appropriate technology. Leadership development will be provided through FFA. Each student will be expected to have a supervised agricultural experience program.

Landscaping**Grade: 10 – 12****Credit: .5**

This course prepares students for occupations in the landscaping industry. The program consists of how to evaluate the site, including sketching, planning, and drawing landscape plans; how to perform calculations related to landscape construction; how to identify landscape plants and their characteristics; and how to bid a job, install and maintain landscape plants. Content may be enhanced by appropriate computer applications. Leadership development will be provided through FFA. Each student will be expected to have an agricultural experience program.

Floral Design**Grade: 10 – 12****Credit: .5**

This course provides hands-on experience in floral design techniques using silk, dried, and fresh flowers; operating and managing a florist business; interior plantscaping; and identification, production and cultural maintenance practices of plants used in interior landscapes. Houseplant identification will be emphasized. Content may be enhanced by appropriate computer applications. Leadership development will be provided through FFA. Each student will be expected to have an agricultural experience program. A \$25.00 fee for flowers/materials is required.

Floriculture/Floral Design II**Grade 10 – 12****Credit: .5****Prerequisite:** Floral Design I

This course goes into more detail with professional floral arrangements, such as those used in weddings, receptions and other social events. The course heightens awareness of careers in greenhouse, horticulture and floral design. There will be a \$25.00 lab fee for this class.

Agribiology**Grade: 10****Credit: 1*****This course may substitute for a Biology science credit***

This course develops scientific knowledge and skills pertaining to land management and its effect on food and fiber production, the environment, and the quality of life. The relationship of land to plant growth will be emphasized. Plant composition, reproduction, growth and current biotechnological advances will be included. Content may be enhanced with appropriate computer applications.

Leadership development will be provided through FFA. Each student will be expected to have an agricultural experience program.

Wildlife & Conservation Management**Grade: 10 – 12****Credit: .5**

This class is an introduction to wildlife & conservation. The curriculum will include career opportunities, plant and wildlife identification, and management. The class will include instruction in fish and wildlife resources, care of game fowl, maintaining and repairing facilities, and equipment in natural resources, along with current wildlife and conservation issues. Students will calculate the population dynamics that relate to wildlife; examine the human impact on wildlife resources; identify the human role in wildlife and habitat management as it applies to historic, social, political and economic concerns; explore the history of wildlife management; explore the habitat of game, non-game, and endangered species in Kentucky.

Environmental Technology**Grade: Grade 10 – 12****Credit: .5**

This course incorporates the scientific study of environmental technology. It is designed to develop an awareness of environmental concerns related to wildlife, air, water, soil, land use management, waste management, and their interrelationship with the biological ecosystem. Soil formation, conservation and evaluation material will also be included. Content will be enhanced with appropriate technology, scientific laboratory activities, field experimentation, community development projects, and career development events. Leadership development will be provided through FFA. Each student will be expected to have an agricultural experience program.

Women In Agriculture**Grades: 11 – 12****Credit : .5****Prerequisite: Open to any female student in grades 11 and 12**

This course will explore and evaluate opportunities for women in the agriculture industry. Career research and understanding for the future of agriculture will be explored. Opportunities will be evaluated through the use of applied instruction. Student will explore all facets of agriculture mechanics, construction, welding, and metal fabrication. Students will develop basic skills in tool identification, tool operation, safety, construction calculations, and machinery maintenance. Student will provide protective clothing.

Seniors who would like to take the agricultural sales and marketing co-op will need to complete requests for 7 credits other than the co-op credits. A complete schedule without co-op will be built for all students. Seniors who would like to take co-op must complete an application and be accepted prior to their schedule having co-op added. These changes will occur in the fall. Applications will be available in the counseling center during the month of June. Unexcused absences from the 2009-2010 school year will be one of the factors on the application for co-op. If a student has 6 or more unexcused absences for the 2009-2010 school year, they will not be eligible for co-op during the 2010-2011 school year. Other factors such as disciplinary referrals and credits toward graduation will also be part of the application to determine eligibility. Student enrollment in this course will be terminated if the unexcused absence total in a current semester is more than 3.

Ag. Sales & Marketing

Grade: 12

Credit: 1

Prerequisite: Teacher recommendation and previous credit(s) in agricultural courses

This course is an introduction to agricultural sales and marketing including competition in the agricultural 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 accounting procedures. Content may be enhanced with appropriate computer applications. Leadership development will be provided through FFA. Each student will be expected to have an agricultural experience program. Interested students should complete an application.

Ag. Sales and Marketing Co-op

Grade: 12

Credit: 1

This course must be taken in conjunction with Ag. Sales and Marketing. Students will be required to work (paid or intern) in an approved agricultural work station. This is a YEAR-LONG course.

ARMY JROTC

Leadership Education Training

LET 1.1 - Introduction to Leadership, Character Development, and Life Skills I (.5 credit)

COURSE DESCRIPTION: This course includes instruction in the history, customs, traditions and purpose of Army Junior ROTC program. New cadets learn about the program through hands-on practical instruction in physical fitness, drill and ceremonies, and chain-of-command structures. New cadets who earn the privilege of wearing the JROTC uniform (issued at no cost) will be inducted into the Corp of Cadets at the end of the first nine weeks. Cadet must wear the uniform once weekly for a grade. Cadets who enroll in LET 1.1 are automatically enrolled in LET 1.2.

COURSE PREREQUISITES: Completion of the eighth grade

LET 1.2 – Introduction to Leadership, Character Development, and Life Skills II (.5 credit)

COURSE DESCRIPTION: This course continues instruction in the history, customs, traditions, and purpose of Army Junior JROTC program. Focus shifts to basic leadership and character development through the practical exercise, teambuilding, and exploration of learning styles, brain structure, and small group dynamics. Cadet must wear the uniform once weekly for a grade.

COURSE PREREQUISITES: LET 1.1

LET 2.0 - Intermediate Leadership, Character Development, and Life Skills (1 credit)

COURSE DESCRIPTION: This course focuses on leadership styles and practical leadership experience as well as the basic principles of management. It provides self assessments that help students examine their skill sets in regard to healthy living, first aid, and drug awareness. Cadets complete the National Endowment for Financial Education (NEFE) High School Financial Planning Program curriculum during the course of instruction. Students will also prepare a career portfolio and explore planning for college or work. During the year cadets will be introduced to map reading and the sport of orienteering as well as marksmanship safety and air rifle marksmanship. Cadet must wear the uniform once weekly for a grade.

Students who have completed LET 1.1 and 1.2 and are enrolled in and complete LET 2.0 have met the requirements for the Career Options credit required for graduation.

COURSE PREREQUISITES: LET 1 with a minimum of a “C”

LET 3.0 - Advanced Leadership, Character Development, and Life Skills (1 credit)

COURSE DESCRIPTION: This course places students in company-level leadership positions with direct responsibility for leading, motivating, and instructing others. Focus includes negotiation skills, conflict resolution, putting leadership principles into practice, and execution of service learning activities. Students extend their knowledge of citizenship by examining the Constitution and its origins, the Bill of Rights, the American electoral system, and the branches of government. Cadet must wear the uniform once weekly for a grade.

COURSE PREREQUISITES: LET 2 with a minimum of a “C”

LET 4.1 – Leadership Seminar and Military History I (Block – 1 Credit)

COURSE DESCRIPTION: This is phase one of the capstone course of Leadership Education Training (LET). In this course cadets are placed in command and staff positions responsible for planning, coordinating, and executing all Corps events. Focus is on creating positive leadership situations, decision-making, problem solving, planning, data base management, team development, project management, and mentoring. Instruction includes examination of emotional intelligence, violence prevention, and anger management. Cadets will explore the role of military service in society, past and present. Cadet must wear the uniform once weekly for a grade.

COURSE PREREQUISITES: LET 3 with a minimum of a “B” average and instructor approval

LET 4.2 – Leadership Seminar and Military History II (Block – 1 Credit)

COURSE DESCRIPTION: This is a continuation of LET 4.1 and the final phase of the LET curriculum. During the course cadets will continue to refine their ability to work as a staff in planning and conducting Corps events to include formal inspection, administration of the President’s Physical Fitness Challenge, and the annual awards ceremony. Cadets will prepare and conduct formal blocks of instruction on the Department of Defense, AmeriCorps, Peace Corps, and branches of military as they examine the relationship of service to society. Cadet must wear the uniform once weekly for a grade.

COURSE PREREQUISITES: LET 3 with a minimum of a “B” average and instructor approval

ART

***All art courses will require students to provide some basic supplies, and certain art units will require the purchase of consumable instructional materials for specific projects.**

Art I**Grade: 9 – 12****Credit: 1**

This is an introductory and exploratory course in which the student has hands-on experiences in the elements and principles of art. Both two- and three- dimensional areas are included. Emphasis is placed on developing drawing skills and learning to incorporate art elements and principles in various media. An extensive study of color theory and painting techniques complete the course. This provides the student with a firm foundation of basic skills to prepare him for the next level of courses.

Art I for Upperclassmen**Grade: 10 – 12****Credit: 1**

This is an introductory and exploratory course scheduled early in the day for upperclassmen. It offers a variety of hands on 2-D and 3-D experiences in art, emphasizing the elements and principles of design. Emphasis is placed on developing drawing skills and learning to incorporate art elements and principles in various media. An extensive study of color theory and painting techniques complete the course. This course provides the student with a firm foundation of basic skills to prepare him/her for the next level of courses.

Beginning Graphic Arts**Grade: 10-12****Credit: 1****Prerequisite: Art I with a “C” or better.**

Studio art is at the heart of most graphic design programs. In this class, you’ll gain tons of practical experience by trying your hand at real-world projects such as logo design, illustration, websites, advertising, graphic novels/cartooning, bookmaking, photography, and product design. Portfolio and career options will round out this course as an introduction to an ever expanding industry.

Art II**Grade: 10 – 12****Credit: 1*****Prerequisite: Art I with a grade of “C” or better and Instructor recommendation.***

Students will have an opportunity to advance to a higher level of understanding and achievement in the areas explored in the Art I course. Painting is strongly emphasized in Art II, but several other media are experienced as well.

Art III**Grade: 10 – 12****Credit: 1*****Prerequisite: Art II with a grade of “C” or better and Instructor recommendation.***

Students will develop skills and an understanding and mastery in a variety of media techniques using sculpture, collage and painting. Students will use a variety of styles and special drawing techniques.

Art IV**Grade: 12****Credit: 1*****Prerequisite: Art III with a grade of “B” or better and Instructor recommendations***

This course provides an in-depth study and mastery of skills and technique in various media. Assistance is given in Art portfolio preparation.

Clay and Sculpture**Grade: 10 – 12****Credit: 1*****Prerequisite: Art I with a grade of “B” or better and Instructor recommendation.***

This course provides opportunity for exploration of 3-D media including, but not limited to, clay, wire, wood and paper-mache’. There is a \$25.00 fee for this course.

Clay and Sculpture II**Grade: 10 – 12****Credit: 1*****Prerequisite: Art I, Clay and Sculpture I with a grade of “B” or better and a teacher recommendation.***

This course provides a continuation of Clay and Sculpture I, in exploration of various 3D media. There is a \$25.00 fee for this course.

Multicultural Art**Grade: 9-12****Credit: .5****Prerequisite: none**

Art has always played a significant role in shaping and recording our cultural history and lifestyles. This course is designed to explore the visual arts of various cultures around the world. Each unit of study will help students learn about various ways people in the world approach daily living, religion, and customs. The student will develop and create a wide range of artistic products that explores the diversity of each culture.

Traditional and Contemporary Handicrafts**Grade: 9-12****Credit: .5****Prerequisite: none**

Also known as craftwork or simply craft, is a type of work where useful and decorative devices are made completely by hand or using only simple tools. Usually the term is applied to traditional means of making goods. Usually, what distinguishes the term handicraft from the frequently used category Arts and Crafts is a matter of intent: handcrafted items are intended to be used, worn, et cetera, having a purpose beyond simple decoration. Handicrafts are generally considered more traditional work, created as a necessary part of daily life, while "Arts and Crafts" implies more of a hobby pursuit and a demonstration/perfection of a creative technique. This course is designed to be an exploratory in which the student develops skills in a variety of craft media, including, but not limited to studies of jewelry, weaving, fabric crafts, carving, and gift making.

AUTOMOTIVE TECHNOLOGY**Introduction to Career and Technical Education****Grade: 9****Credit: .5**

This course will provide students an opportunity to explore courses in automotive, carpentry, health sciences, information technology, and welding. Students will learn and practice safety and employability skills. There will be opportunities to participate in hands-on activities using tools and equipment in each program area.

Students completing a series of courses in the Automotive Technology Program may earn one or more of the following certificates:

- Automotive Specialty Technician—Brakes
- Automotive Specialty Technician—Engine
- Automotive Specialty Technician—Front End
- Automotive Specialty Technician—Tune Up

Brake Systems and Lab**Grade: 10 – 12****Credit: 1**

This course involves the operational theory and application of hydraulic and anti-lock brake systems; disc and drum brakes are discussed. (Kentucky Community and Technical College dual credit course Brake Systems AUT 110/111)

Engine Repair and Lab**Grade: 11 – 12****Credit: 1****Prerequisite: At least one automotive course**

This course provides a series of lectures and demonstrations on the fundamentals of engine repair, troubleshooting, and engine operation and maintenance. (Kentucky Community and Technical College dual credit course Engine Repair ADX 150/151)

Basic Automotive Electricity and Lab**Grade: 10 – 12****Credit: 1**

This course introduces the student to the principles, theories, and concepts of the automotive electrical system that include the unique diagramming, coding and locating of wiring, and component devices. (Kentucky Community and Technical College dual credit course Basic Automotive Electricity ADX 120/121)

Basic Fuel & Ignition Systems and Lab**Grade: 10 – 12****Credit: 1**

This course presents the theory, component identification, application, operation, and the service and repair of the basic automotive ignition, fuel, and emission systems, including related components. (Kentucky Community and Technical College dual credit course Basic Fuel and Ignition Systems AUT 140/141)

Emission Systems and Lab**Grade: 11 – 12****Credit: 1**

This course presents the theory, component identification, application, operation, and the service and repair of advanced automotive ignition, fuel, and emission systems, including related components. (Kentucky Community and Technical College dual credit course Emission Systems AUT 142/143)

Electrical Systems and Lab

Grade: 11 – 12

Credit: 1

This course focuses on the theory and principles relating to automotive electrical/electronic components. (Kentucky Community and Technical College dual credit course Electrical Systems ADX 260/261)

Computer Control Systems and Diagnosis with Lab

Grade: 11 – 12

Credit: 1

Prerequisite: Emission Systems

This course presents the comprehensive diagnostics of on-board computer control systems. The problem solving process, including flow chart reading, will be presented. (Kentucky Community and Technical College dual credit course Computer Control Systems and Diagnosis AUT 240/241)

Suspension & Steering with Lab

Grade: 11 – 12

Credit: 1

This course presents the automotive suspension system, the diagnosing of suspension problems, identifying components, recognizing tire wear problems, wheel balancing, and the use of alignment equipment. (Kentucky Community and Technical College dual credit course Suspension and Steering AUT 160/161)

Automotive Co-Op I

Grade: 11 – 12

Credit: 1

Automotive Co-Op II

Grade: 11 – 12

Credits: 2

Prerequisite: Instructor's Approval

Co-op provides supervised on-the-job work experience related to the student's educational objectives. Students who participate in the Cooperative Education program receive compensation for their work. (Kentucky Community and Technical College dual credit course Cooperative Education I AUT 199 and Cooperative Education II AUT 299.)

It is assumed that:

1. In all areas, appropriate theory, safety, and support instruction will be required for performing each task;
2. The instruction has included identification and use of appropriate tools and testing and measurement equipment required to accomplish certain tasks;
3. The student has received the necessary training to locate and use current reference and training materials from accepted industry publications and resources;
4. In all areas, the student has demonstrated the ability to write work orders and warranty reports, to include information regarding problem resolution and the results of the work performed for the customer and manufacturer. The writing process will incorporate the "Three C's" (concern, cause and correction) as a format to communicate this information.

BUSINESS EDUCATION*

*Certain business classes require the purchase of consumable instructional materials.

Mathematics for Business and Industry

Grade: 9 – 12

Credit: 1

This course enables the student to explore mathematical content for personal, business and industrial use. Math concepts and skills are applied through study and problem-solving activities in real-world situations in the following areas: Banking, measurement, borrowing and investing, consumer purchases, and

financial management. Appropriate business forms are used in each unit. Leadership development will be provided through FBLA. **Successful completion of this course will meet one of the math requirements for graduation.**

Business Principles and Applications**Grade: 9 –12****Credit: 1**

This course establishes basic foundations for further study in business and marketing courses and provides essential information for making financial and economic decisions. Students learn about the fundamentals of the American free enterprise system and world economies; application of sound money management for personal and family finances; credit management consumer rights and responsibilities; forms of business ownership; risk and insurance; and the importance of international trade. Leadership development will be provided through FBLA and/or DECA.

Financial Literacy**Grade: 9 – 12****Credit: .5**

This course includes a study of economics, money in the economy, budgeting, credit, consumer rights and responsibilities, taxes, employee benefits, insurance, investments, and retirement planning. These principles will be taught using hands-on activities for personal use or in the business world.

Business Management**Grade: 10 – 12****Credit: 1**

This course emphasizes the skills needed for managing a business that involves the selection and supervision of employees including efficient use of time, personnel, facilities, and financial resources. Students will explore forms of business ownership; typical business organizational structure; product or service promotion in business; effective communications; human relations skills required in dealing with employees; and effective management strategies used in personnel, finance, production, marketing, and information processing. Leadership development will be provided through FBLA.

Business Law**Grade: 10 – 12****Credit: 1**

This course will help students develop an understanding of legal rights and responsibilities in personal law and business law with applications applied to everyday roles as consumers, citizens, and workers, the American legal system, court procedures, criminal and civil justice systems, contracts and warranties, and consumer protection. Legal terminology is emphasized. Leadership development will be provided through FBLA.

Sports Marketing**Grade: 10 – 12****Credit: 1**

This course is designed to provide training of skills necessary for positions in the Sports and Entertainment field and to expose students to career paths in this field. Topics include marketing skills, skills and techniques of advertising and promotions, psychology of selling and management associated with the marketing of leisure-time activities and events. Leadership development will be provided through FBLA.

Computer and Technology Applications**Grade: 9 – 12****Credit: 1**

This course is designed to provide students with entry-level experience in practical keyboarding and computer applications. Students will use a computer and application software including word processing, presentation, database, spreadsheets, internet, and email to prepare elementary documents and reports. The impact of computers on society and ethical issues are presented.

Advanced Computer and Technology Apps**Grade: 10 – 12****Credit: 1*****Prerequisite: Computer and Technology Applications***

This course is designed to provide students with an advanced-level experience with practical applications through hands-on instruction. Course content will include understanding various hardware, software, operating systems, care/operations, administrative applications, and employability skills. The software includes advance applications using word processing, presentation, spreadsheets, database management, desktop publishing and electronic communications. Leadership development is provided through FBLA.

Financial Services I (School Bank)**Grade: 11 – 12****Credit: 1*****Prerequisite: Teacher recommendation and one business or marketing credit. Application is required.***

This course is designed for students interested in pursuing a career in the financial institution field. It involves operation of a student financial center in cooperation with a sponsoring bank, which provides application of bank and financial procedures and concepts. Leadership development will be provided through FBLA and/or DECA. Interested students must complete an application.

Financial Services II (School Bank)**Grade: 11 – 12****Credit: 1*****Prerequisite: Financial Services I. Application is required.***

This course is a continuation of Financial Services I providing opportunities to enhance students' math and English portfolio writings. Students continue to learn and practice financial activities associated with the operation of a bank and other finance-related institutions in addition to assuming management and supervisory responsibilities, including training "new employees." Students will participate in a work-based learning experience (i.e., co-op, internship, shadowing, mentoring, etc.) Leadership development will be provided through FBLA and/or DECA.

Accounting and Finance Foundations**(Formerly Accounting I)****Grade: 10 – 12****Credit: 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 system and include preparing bank reconciliations, payroll taxes, and financial statements. Detailed career exploration in the various fields of accounting will be available. There is an emphasis on automated accounting. Leadership development will be provided through FBLA.

Financial Accounting**(Formerly Accounting II)****Grade: 10 – 12****Credit: 1*****Prerequisite: Accounting and Finance Foundations***

The accounting principles taught in this course include an in-depth study of accounting principles, procedures, and techniques used in keeping financial records for sole proprietorships, partnerships, and corporations. There is an emphasis on automated accounting. Topics include a more analytical approach to accounting. Leadership development is provided through FBLA.

Career Options**Grade: 10 – 12****Credit: 1**

This course for sophomores provides students with a survey of skills needed for school-to-work transition. Opportunities to explore career clusters and career paths, to heighten self-awareness, and to develop

priorities and career decision-making skills and job hunting skills are also provided. A variety of instructional resources, self-assessment instruments, and career interest surveys are included. Interpersonal skill development and orientation to word processing, computer spreadsheet, and database are included. Leadership development will be provided through FBLA and/or DECA.

Multimedia Publishing**Grades: 10-12****Credit: 1*****Prerequisite: Computer and Technology Applications***

This hands-on course applies publishing and presentation concepts through the development of sophisticated business documents and projects. These documents include, but are not limited to, brochures, manuscripts, reports, programs, catalogs, newsletters, flyers, business forms, graphs, web pages, on-screen presentations, and video productions. Equipment such as scanners, digital cameras, video cameras, and color laser printers, may be utilized in creating the documents. Formatting, editing, page layout, and design concepts are taught. Distribution ready publication standards are applied to all projects. Students will develop communication skills, problem-solving techniques, cooperative learning, and interpersonal skills.

Instructional Technology I**Grades 11-12****Credit: .5****Prerequisites: Must have had or be taking Computer Applications, or permission of instructor**

Description: This course is more of an independent study project that will be graded on student performance with project-based assessment. Students will assist in the maintenance of a real-time database where technology work order tickets are distributed to each student which will be their responsibility. Prior to each project, students will undergo training sessions, if necessary, to help master the technical skills needed. The student will find the solution with the help of the classroom teacher or one of the district technicians, gaining valuable troubleshooting skills. Students will get real-life experience at solving problems in the technology field as well as gain exposure to many new and emerging technologies throughout the year. Students will take on a leadership role with respect to technology in their school. Special permission and an application are needed to take this course.

Instructional Technology II**Grades 11-12****Credit: .5****Prerequisites: Instructional Technology I**

Description: This course builds upon and extends the skills and knowledge developed during Instructional Technology I.

CARPENTRY TECHNOLOGY

Introduction to Career and Technical Education**Grade: 9****Credit: .5**

This course will provide students an opportunity to explore courses in automotive, carpentry, health sciences, information technology, and welding. Students will learn and practice safety and employability skills. There will be opportunities to participate in hands-on activities using tools and equipment in each program area.

Students completing a series of courses in the Carpentry Program may earn one or more of the following certificates:

Basic Carpenter—Floor & Wall B

Basic Carpenter—Framing B

Introduction to Carpentry and Lab**Grade: 9 – 12****Credit: 1**

This course is the introduction to the construction carpentry industry. The class will emphasize safe and proper methods of operating hand tools, portable power tools, and stationary power tools in the construction industry. (Kentucky Community and Technical College dual credit course Introduction to Carpentry/Lab CAR 130/131)

Floor and Wall Framing**Grade: 10 – 12****Credit: 1****Prerequisite: Introduction to Carpentry**

The student will practice floor framing, layout, and construction of floor frames. Cutting and installing floor and wall framing members according to plans and specifications will also be practiced. (Kentucky Community and Technical College dual credit course Floor and Wall Framing/Lab CAR 190/191.)

Ceiling and Roof Framing**Grade: 10 – 12****Credit: 1****Prerequisite: Introduction to Carpentry**

This course covers roof types and combinations of roof types used in the construction industry. The emphasis of the course is on layout, cutting and installing ceiling joists, rafters, roof decking, and roof coverings. (Kentucky Community and Technical College System dual credit course Ceiling and Roof Framing/Lab CAR 196/197.)

Exterior and Interior Finishing**Grade: 11 – 12****Credit: 1****Prerequisite: Floor and Wall Framing**

This course presents basic concepts of building trim, gypsum wallboard, paneling, base, ceiling and wall molding with instruction on acoustical ceilings and insulation, wood floors, tile, inlaid adhesive and tools of the flooring trade. This course will continue to refine the techniques and skills taught in the previous carpentry courses. In this course, cost control, speed, and precision are emphasized. In addition, students will perfect the skills associated with the exterior finishing of a house. (Kentucky Community and Technical College System dual credit course Exterior and Interior Finish/Lab CAR 200/201)

Practicum I**Grade: 11 – 12****Credit: 1****Prerequisite: Permission of instructor**

The practicum provides supervised on-the-job work experience including various Construction Carpentry Technology topics, issues and trends. Students participating in the practicum do not receive compensation. Topics may vary semester to semester at the discretion of the instructor. (Kentucky Community and Technical College dual credit course Practicum I CAR 198.)

Co-Op I**Grade: 11 – 12****Credit: 1****Prerequisite: Permission of instructor**

Co-op provides supervised on-the-job work experience related to the student's educational objectives. Students participating in the co-op receive compensation for their work. (Kentucky Community and Technical College dual credit course Cooperative Education I CAR 199.)

COLLEGE COURSES

Seniors interested in taking dual-enrollment courses at an area college must see their guidance counselor for more information. Students scheduling college courses that meet after 5:00 pm will not be eligible for early dismissal.

FAMILY AND CONSUMER SCIENCES**Life Skills****Grade: 9 – 10****Credit: .5**

This course provides an opportunity for acquiring basic life skills and allows students a variety of areas to study. Emphasis is on work and family, adolescent development, selection and care of clothing, consumer spending, housing choices, challenges of child rearing, and guidance in establishing relationships. Leadership development will be provided through the Family, Career and Community Leaders of America.

Relationships**Grade: 9 – 12****Credit: .5**

This course assists students to develop self-understanding, understanding others better, improve interpersonal skills both within and outside the family, be more considerate of other person's needs and property, and maintain mental and emotional wellness. Family life education comprises a portion of this course, including dating and marriage relationships. Leadership development will be provided through the Family, Career and Community Leaders of America.

Fashion & Interior Design I**Grade: 10 – 12****Credit: 1**

This course provides opportunities for students to develop career competencies in the fashion and/or interiors industry by applying information related to social, economic, and media influences. Students apply knowledge of design principles and processes through skill performance activities. Work experience will be explored and leadership development will be provided through FCCLA.

Fashion & Interior Design II**Grade: 11 – 12****Credit: 1*****Prerequisite: Fashion & Interior Design I***

This course provides opportunities for students to develop career competencies in the fashion and/or interiors industry. Practical problems include advanced textile construction techniques, and/or creation of floor plans using technological resources. Entrepreneurial opportunities will be explored. Application of skills will occur in a variety of work sites. Leadership development will be provided through Family, Career and Community Leaders of America.

Parenting**Grade: 10 – 12****Credit: 1**

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 becoming an informed parent, caring for children, and being an effective parent/caregiver. Leadership development will be provided through Family, Career and Community Leaders of America.

Child/Human Development**Grade: 10 – 12****Credit: 1**

This course addresses the practical problems related to understanding the types and stages of human growth

and development, recognizing effects of heredity and environment on human growth and development, promoting optimum growth and development in the infancy, toddler, and preschool stages. Careers in child/human development are explored. Leadership development will be provided through the Family, Career and Community Leaders of America.

Adv. Child/Human Development**Grade: 10-12****Credit: 1**

This course addresses the practical problems related to understanding the types and stages of human growth and development, recognizing effects of heredity and environment on life stages, meeting the needs of exceptional children, promoting optimum growth and development in the middle childhood, adolescent, and adult stages. Careers in child/human development and adult day care services are explored. Leadership development will be provided through the Family, Career and Community Leaders of America.

Seniors who would like to take the child development services co-op will need to complete requests for 7 credits other than the co-op credits. A complete schedule without co-op will be built for all students. Seniors who would like to take co-op must complete an application and be accepted prior to their schedule having co-op added. These changes will occur in the fall. Applications will be available in the counseling center during the month of June. Unexcused absences from the 2009-2010 school year will be one of the factors on the application for co-op. If a student has 6 or more unexcused absences for the 2009-2010 school year, they will not be eligible for co-op during the 2010-2011 school year. Other factors such as disciplinary referrals and credits toward graduation will also be part of the application to determine eligibility. Student enrollment in this course will be terminated if the unexcused absence total in a current semester is more than 3.

Child Development Services I**Grade: 12****Credit: 1**

This course is designed to give the student an opportunity to experience careers in child/human development and adult day care services. Leadership development will be provided through FCCLA. Students will be required to work (paid or intern) in an approved child or adult workstation. This is a year long course.

Food & Nutrition**Grade: 10 – 12****Credit: 1**

This course is designed to assist students in making critical decisions about food, which contributes to health and well-being. Laboratory instruction is included as an application process. Practical problems addressed relate to attitudes toward food, nutrition facts, special health concerns and diets, management of food resources, preparation skills and careers in nutrition and food service. Leadership development will be provided through Family, Career and Community Leaders of America.

Money Skills**Grade: 11-12****Credit: .5**

This course is designed to prepare students to understand and use sound financial management skills and practices contributing to financial stability, improving the quality of life for individuals and families. Decision-making, problem solving, goal setting and using technology are integrated throughout the content. Leadership development will be provided through the Family, Career and Community Leaders of America.

FOREIGN LANGUAGE**French I****Grade: 9 – 12****Credit: 1*****Prerequisite: Incoming freshmen must have “B” average in English***

This course is designed to give the student an introduction to the French language and culture. The student will learn the basic structure of the French language through a study of language and vocabulary. The student will be involved in listening comprehension, speaking, reading, writing, and cultural activities.

French II**Grade: 9 – 12****Credit: 1*****Prerequisite: French I and teacher recommendation***

Level II in the French language continues development in the four basic language skills: listening comprehension, speaking, reading, and writing. Emphasis continues on the culture, customs, and traditions of the French-speaking people

French III**Grade: 10 – 12****Credit: 1*****Prerequisite: French II and teacher recommendation***

Level III in the French language continues development in the four basic language skills: listening comprehension, speaking, reading, and writing. Emphasis continues with the culture, customs, and traditions of the French-speaking people. An introduction to literary readings is offered.

AP French Language**Grade: 12****Credit: 1*****Prerequisite: French III and teacher recommendation***

The advanced placement course is equivalent to the fifth and sixth college semesters. It is designed for students who plan to attain a high level of proficiency in French. A wide variety of resources and methods will be used in order that student refine their language skills.

Spanish I**Grade: 9 – 12****Credit: 1*****Prerequisite: Incoming freshmen must have “B” average in English***

Students will begin developing their speaking, listening, reading, and writing skills. Some formal study and practice of grammar should be expected; however, students begin to acquire second language skills as a result of natural experiences including their own manipulation of the language. Students also learn about Hispanic people and culture through readings, videos, and class discussions.

Spanish II**Grade: 9 – 12****Credit: 1*****Prerequisite: Spanish I and teacher recommendation***

This course is designed as a continuation of Spanish I. Students will further develop their speaking, listening, reading, and writing skills. Although they engage in a more thorough study and practice of grammar than they did in Spanish I, emphasis is still placed on natural practice and creativity.

Spanish III**Grade: 10 – 12****Credit: 1*****Prerequisite: Spanish II and teacher recommendation***

In this course the students continue to improve speaking, listening, reading, and writing skills. At this level students are prepared to work independently and in small groups as they participate in various activities, which will increase conversational ability and cultural appreciation.

AP Spanish Language**Grade: 11 – 12****Credit: 1*****Prerequisite: Spanish III and teacher recommendation***

The advanced placement course is equivalent to the fifth college semester. It is designed for students who plan to attain a high level of proficiency in Spanish. A wide variety of resources and methods will be used in order that students refine their language skills.

HEALTH AND PHYSICAL EDUCATION

Health**Grade: 9****Credit: 1**

This year long Freshman Health Education is designed to introduce and study a variety of subjects. Topics will include Health and Wellness, maintaining good mental and physical well-being throughout life, nutrition and its effect on health, stress management, drug and alcohol abuse (including tobacco use), infectious diseases (including sexually transmitted disease), first-aid and CPR. This course places emphasis on the establishment of students' healthful habits now and throughout their lives.

Physical Education I**Grade: 9-10****Credit: .5**

This is a **REQUIRED COURSE** before a student can take PE II, PE III, or PE IV. This is designed to introduce students to a variety of sports, physical activities, individual games, and components of physical fitness. Students will be introduced to the rules, history, equipment and skills of each activity or sport covered. In addition, students will demonstrate the importance of sportsmanship and teamwork through a variety of competitions. Physical Education I puts an emphasis on lifetime activities. Students will gain an understanding of how lifetime activities can positively influence their levels of physical fitness, as well as their well-being, for a great part of their lives.

Team Sports I (fall semester)**Grade: 10-12****Credit: .5**

In Team Sports, students will participate in and study various sports such as soccer, flag football, volleyball, ultimate Frisbee, flickerball, weight training, aerobic conditioning, and computer lab assignments. An in-depth study of each activity will provide students an opportunity to further develop skill techniques and rules applications. **PE I must be taken as a prerequisite before Team Sports I can be taken.**

Team Sports II (spring semester)**Grade: 10-12****Credit: .5**

In Team Sports II, students will participate in and study various sports such as basketball, badminton, pickleball, flickerball, Team Handball, weight training, aerobic conditioning, kickball, and computer lab assignments. An in-depth study of each activity will provide students an opportunity to further develop skill techniques and rules applications. **PE I must be taken as a prerequisite before Team Sports II can be taken.**

Individual/Recreational Sports

Grade: 10-12

Credit: .5

In this class activities such as aerobic conditioning, weight training, badminton, golf, table tennis, tennis, Frisbee golf, pickleball, bowling, archery, and classroom assignments will be the primary focus. The class will focus on activities that can be participated in for a lifetime individually. Skill development leading into match play and competition will be stressed. **PE I must be taken as a prerequisite before Individual/Recreational Sports can be taken.**

Weightlifting/Conditioning (females only)

Grade: 10-12

Credit: .5

This course is designed for those students who are serious about becoming physically fit and maintaining a healthy lifestyle. This class will help develop proper mental and physical conditioning along with creating a greater appreciation for overall fitness. Areas emphasized in this class will include: weight training, aerobic conditioning, muscular anatomy, nutrition, flexibility, and sports specific movements. No previous weight training is required, but a willingness to work hard and learn is a requirement. **PE I is the prerequisite for Weightlifting/Conditioning class.**

Weightlifting/Conditioning (males only)

Grade: 10-12

Credit: .5

This course is designed for those students who are serious about becoming physically fit and maintaining a healthy lifestyle. This class will help develop proper mental and physical conditioning along with creating a greater appreciation for overall fitness. Areas emphasized in this class will include: weight training, aerobic conditioning, muscular anatomy, nutrition, flexibility, and sports specific movements. No previous weight training is required, but a willingness to work hard and learn is a requirement. **PE I is the prerequisite for Weightlifting/Conditioning class.**

Aerobics (females only)

Grade: 10-12

Credit: .5

This class will focus on various ways to improve cardiovascular and aerobic fitness. Emphasis will be placed on burning calories and strengthening the heart through a variety of activities including: kickboxing, step aerobics, pilates, yoga, dance, jump rope, circuit training, walking/jogging, and classroom activities. **PE I is the prerequisite for Aerobics class.**

Aerobics (males only)

Grade: 10-12

Credit: .5

This class will focus on various ways to improve cardiovascular and aerobic fitness. Emphasis will be placed on burning calories and strengthening the heart through a variety of activities including: kickboxing, step aerobics, pilates, yoga, dance, jump rope, circuit training, walking/jogging, and classroom activities. **PE I is the prerequisite for Aerobics class.**

P.E. Internship I

Grade: 12 only

Credit: .5

This course is designed for students who are interested in the areas of physical education, recreation, or related fields. The student will assist the instructor by planning various exercises and activities, demonstrating skills, officiating, and using his/her acquired knowledge to assist other students. Students will be required to design a unit during the semester. **P.E. teacher recommendation is required. PE I and two other P.E. courses are prerequisites for this class.**

P.E. Internship II**Grade: 12 only****Credit: .5**

This course is designed for students who are interested in the areas of physical education, recreation, or related fields. The student will assist the instructor by planning various exercises and activities, demonstrating skills, officiating, and using his/her acquired knowledge to assist other students. Students will be required to design a unit during the semester. **P.E. teacher recommendation is required. PE I and two other P.E. courses are prerequisites for this class.**

Adapted PE I**Grade: 9-12****Credit: .5**

This course is designed for students with physical disabilities.

HEALTH SCIENCE**Introduction to Career and Technical Education****Grade: 9****Credit: .5**

This course will provide students an opportunity to explore courses in automotive, carpentry, health sciences, information technology, and welding. Students will learn and practice safety and employability skills. There will be opportunities to participate in hands-on activities using tools and equipment in each program area.

Students completing a series of courses in the Health Science Program may earn one or more of the following certificates:

Health Careers Core I

Health Science Skills

Medicaid Nurse Aide

Principles of Health Science**Grade: 9 – 12****Credit: 1**

This course is an orientation to the Health Care Industry. It is designed to develop and enhance an understanding of the roles and responsibilities of each career major area. Upon successful completion of this course, the student will be able to focus on a career major path and make informed decisions regarding choices for continuing education and/or employment. This course addresses the Kentucky Learner Goals and Academic Expectations, Core Content for Assessment, and includes core components from the National Health Care Skill Standards. (Kentucky Community and Technical College dual credit course HEA 102 Principles of Health Science and WPP 200 Workplace Principles)

Emergency Procedures**Grade: 9 – 12****Credit: .5**

Emergency Procedures is designed to teach cardiopulmonary resuscitation (Adult/Infant/Child) using current emergency techniques relative to cardiac and/or respiratory arrest and safety and first aid, as put forth by the American Heart Association, National Safety Council or American Red Cross. The American Heart Association, National Safety Council, or American Red Cross standardized course qualifies a student for certification of cardiopulmonary resuscitation and safety and first aid. (Kentucky Community and Technical College dual credit courses CPR 100 CPR for Healthcare Professionals and SFA 100 Safety and First Aid)

Medical Terminology**Grade: 9 – 12****Credit: .5**

An overview designed of the basic techniques of medical word building is provided. Once these techniques have been developed, they can readily be applied to acquire an extensive medical vocabulary. Emphasis is on basic anatomical, physiological, pathology, diagnostic procedures, and pharmacological terms. (Kentucky Community and Technical College dual credit course AHS 120 Medical Terminology)

Health Science Anatomy/Physiology**Grade: 11 – 12****Credit: 1**

Basic Anatomy and Physiology is designed to provide knowledge of the structure and function of the human body with an emphasis on normalcy. The course includes interaction of all body systems in maintaining homeostasis, promotes an understanding of the basic human needs necessary for health maintenance, and explains the basic principles of inorganic and organic chemistry as they apply to physiological processes. (Kentucky Community and Technical College dual credit course HEA 110 Basic Anatomy and Physiology.)

Health Care Skills I**Grade: 12****Credit: 2****Prerequisite: Medical Terminology and Anatomy/Physiology**

This course is designed to provide knowledge and skills for students and/or nurse aides to assume the role and responsibility required in long-term care. Student learning occurs through lecture, lab, and clinical practice. The focus of this course is communication, infection control, safety, residents' rights, and basic nursing skills. Students will participate in a non-paid clinical experience during this course. Upon completion of the course, the student is eligible to sit for the state registry examination. (Kentucky Community and Technical College dual credit courses Medicaid Nurse Aide MNA 100 and Practicum I Health HEA 198.)

HUMANITIES**Arts and Humanities****Grade: 11 – 12****Credit: 1**

This is an interdisciplinary course for juniors that include the disciplines of dance, music, theatre, art, and literature combined with the humanities. A variety of media, print sources, and participating activities are blended to provide connections among periods, styles, and cultures. Students become aware that time, plan, and society influence the arts and humanities and that different people share common experiences and attitudes. This is an excellent prerequisite course for college-bound seniors. Most colleges/universities require a humanities course for all students.

AP Art History**Grade: 11 – 12****Credit: 1****Prerequisite: World History/Civilization (or AP European History) with at least a B**

This is an in-depth, chronological survey of painting, photography, architecture and sculpture within the western tradition along with selected works from a variety of cultures beyond the European tradition. The student should have a proficient working knowledge of history, language, and the humanities. **This course may substitute for Arts and Humanities, if completed successfully.** Because it is impossible to discuss visual art without discussing the humanities, students would be required to study the other arts – literature, dance, and music – to better understand visual art.

Detectives in the Arts**Grade: 11 – 12****Credit: .5**

Based on “Thinking Like Leonardo,” this class deals with visual literacy, creative and critical thinking, semiotics and contemporary culture. You will have to look and think, with a huge emphasis on THINKING. We will look for clues in specific works and broad time periods as we solve mysteries, puzzles and crimes. Can you accept the responsibility of learning and having fun at the same time? If the answer is ‘Yes’...take this class! There is a \$12.00 fee for this course.

Film and Art**Grade: 11 – 12****Credit: .5**

Film and Art, a unique interdisciplinary class, brings together a broad range of topics which include the study of film in history, film in relation to both visual art and literature, women and film, experimental film, Japanese literature and film, popular film and television and writing in film. The aims of the class are to acquaint students with a variety of perspectives on the study of film, to sharpen analytical skills, and to enhance a critical appreciation of film culture in historical and social contexts.

Music in Film**Grade: 11 – 12****Credit: .5****Co/Prerequisite: Arts & Humanities**

Have you ever remembered the music of a movie as much as the actual film? Have you ever sat in a theatre, tears streaming down your face, weeping, as the main character heroically dies, listening to the perfect score over the scene making his death ever so poignant and majestic? Can you name several movies with unbelievable soundtracks that “make” the movie, without having to really think about it? Then you should join us in “Music in Film”, a course made just for active viewers like you! In this course, you will experience film from the musical perspective, examining the important relationship between script and score. Clips and full-length films will be used to discuss themes such as: Movies about Music; Award-Winners; Children’s Movies; Music as Narrative; Musicals; Music and Humanity; Music and War; Action & Adventure; Classics in Film; Music to Scare You; Television Music and Themes. As a culminating project students will write, direct, create a soundtrack for, and film their own movie to be shown in class, as students analyze the product in relation to the themes studied throughout the semester. So sit back, relax, and enjoy the music!

Special Topics in Art History: Non-Western Cultures**Grade: 11 – 12****Credit: .5****Co/Prerequisite: B or better in Arts & Humanities or enrolled in AP Art History**

So much emphasis is given to the study of the Western world, but very little to non-western cultures. This course focuses on the major non-western cultures of China, Japan, Korean, India, Africa, Native and South America, Oceania, and Islamic cultures. Throughout the semester, students will experience these cultures through examination of the interrelationships among history, belief systems, art, music, dance, drama, and literature.

Students taking AP Art History are **strongly** suggested to enrolled in this course, as further preparation for the national AP Art History exam given in May. However, anyone with a high interest in non-western cultures is invited to join the class.

INDUSTRIAL TECHNOLOGY**Introduction to Computer Aided Drafting****Grade: 9-12****Credit: .5*****Prerequisite: Student must be either enrolled in or taken GSAT II***

This class will be an introduction to Computer Aided Drafting. Students will acquire basic skills of the software used in Architectural Drafting and industry today. It will be taught in a way that students will learn the fundamentals in a positive and useful way.

Computer Aided Drafting I (CAD)**Grade: 9 – 12****Credit: 1*****Prerequisite: Student must be either enrolled in or taken GSAT II***

This is a computer-aided design class dealing with architectural and mechanical drafting. Students will be exposed to basic principles of house planning styles of home architecture; comparative study of building materials; preparation of a complete set of plans, and specifications for a small house.

Computer Aided Drafting II (CAD)**Grade: 11 – 12****Credit: 1*****Prerequisite: CAD I and Teacher recommendation***

This class deals with a more in-depth study of architecture. Students will design a house with a complete set of plans and schedules, estimate the building costs and generate a typical materials list. Emphasis will be placed on design of the house, the detailed drawings, and working with building codes.

Technology Design**Grade: 10 – 12****Credit: 1*****Prerequisite: CAD I and Teacher recommendation***

This course will give students the opportunity to expand their drafting skills and combine them with woodworking skills. Students will be exposed to computer-aided drafting, the uses of common woodworking, hand and machine tools, shop safety and design processing of lumber for industrial use. Students will draw possible ideas in computer-aided drafting and construct their design or project in the woodshop. Students will be required to purchase materials used in the construction of their projects.

Woods I**Grades: 9 – 12****Credit: .5**

This course is an introductory course in woodworking. The content includes instruction and activities in the following areas: 1) wood technology, 2) safety, 3) wood related tools and machines, 4) basic woodworking projects, 5) cabinet making, and 6) carpentry. Students are required to purchase materials that are used in class. The fee may be waived if a student qualifies for free or reduced lunch.

Woods II**Grades: 10 – 12****Credit: 1*****Prerequisite: WOODS 1 and Teacher recommendation***

This course is a continuation of Woods I. The content includes instruction and activities in the following areas: 1) wood technology, 2) safety, 3) wood related tools and machines, 4) basic woodworking projects, 5) cabinet making, and 6) carpentry. Students are required to purchase materials that are used in class. The fee maybe waived if the student qualifies for free or reduced lunch.

INFORMATION TECHNOLOGY**Introduction to Career and Technical Education****Grade: 9****Credit: .5**

This course will provide students an opportunity to explore courses in automotive, carpentry, health sciences, information technology, and welding. Students will learn and practice safety and employability skills. There will be opportunities to participate in hands-on activities using tools and equipment in each program area.

Students completing a series of courses in the Information Technology Program may earn one or more of the following certificates:

- Animation Web Designer
- Animation Web Designer 2
- Computer Field Tech
- Network Field Tech
- Remote Computer Tech
- Web Editor

Flash**Grade: 9 – 12****Credit: 1**

This course will introduce Macromedia Flash. Students will gain experience in creating graphics, animation, text, forms, and special effects. (Kentucky Community and Technical College dual credit course Macromedia Flash IT 134)

Networking Technologies**Grade: 10 – 12****Credit: 1****Prerequisite: PC Essentials**

This course provides a technical level of understanding in the areas of networking connectivity, data communications concepts and communication protocols. This course includes communications, networking concepts, hardware, software, transmission media, access methods, protocols, and network configurations. System design considerations are addressed. Local area networks and installation of a simple local area network are emphasized. Students will be prepared to take standard industry certification tests. (Kentucky Community and Technical College dual credit course Networking Core Technologies NIS 160.)

PC Essentials**Grade: 10 – 12****Credit: 1****Prerequisite: Student should have basic computer skills**

This course introduces the student to the basic computer hardware and operating systems, covering skills such as installing, building, upgrading, repairing, configuring, troubleshooting, optimizing, diagnosing and preventive maintenance, with additional elements of soft skills and security. Course objectives map closely to the CompTIA A+ Essentials National Examination that validates the basic skills needed by any entry-level computer service technician. (Kentucky Community and Technical College dual credit course Computer Maintenance Essentials IT 105)

PC Field Tech**Grade: 10 – 12****Credit: 1****Prerequisite: PC Essentials**

This course introduces the student to advanced computer maintenance tasks including installation, building, repairing, configuration, troubleshooting, optimizing, diagnosing and preventive maintenance in the context of the field services or enterprise environment. This course is appropriate for those who work, or plan to

work, as computer technicians in a mobile or corporate environment. This course maps closely to the CompTIA A+ 220-602 National Examination. (Kentucky Community and Technical College dual course Advanced Computer Maintenance IT 205)

Help Desk Services**Grade: 11 – 12****Credit: 1****Prerequisite: PC Field Tech and Permission of Instructor**

Students learn self-management and soft skills to provide help-desk customer service and support including processes and associated technologies in a technical or non-technical environment. This course focuses on the technology, tools and techniques involved in how to run an effective help desk. Students will look at the many software options available for tracking and managing data. Course includes hands-on, real-world projects using current help desk software. (Kentucky Community and Technical College dual course Help Desk Service Skills and Tools IT 237 and Help Desk II: Help Desk Tools IT 238)

Web Page Development**Grade: 10 – 12****Credit: 1****Prerequisite: Flash**

Web page design using HTML will be introduced. Creating web documents using a simple text editor will be the main focus. How to use a simple web editor will also be covered. Features such as layout, tables, images, forms, frames, and the incorporation of sound and video will be explored. Developing site specifications and methods to increase the appeal and effectiveness of web sites are included. How to prepare web documents appropriate for use in business and professional web sites will be covered. (Kentucky Community and Technical College dual course Web Page Development IT 132)

Practicum I**Grade: 11 – 12****Credit: 1****Prerequisite: Instructor's Approval**

Practicum provides supervised on-the-job work experience related to the student's educational objectives. Students participating in the practicum do not receive compensation. (Kentucky Community and Technical College dual credit course Practicum I IT 198.)

Information Technology Co-Op I**Grade: 11 – 12****Credit: 1****Information Technology Co-Op II****Grade: 11 – 12****Credits: 2****Prerequisite: Instructor's Approval**

Co-operative Education provides supervised on-the-job experience related to the student's educational objectives. Students participating in the Co-operative Education program receive compensation for their work. (Kentucky Community and Technical College dual credit course Cooperative Education I IT 199 and Cooperative Education II IT 299.)

LANGUAGE ARTS *

*** Note: A Practice Writing Folder will be completed every year in grades 9 – 11.**

English I**Grade: 9****Credit: 1**

These classes will develop students' abilities in reading, writing, speaking, and thinking. Students will study many types of literature, including the short story, poem, essay, drama and novel. Students will practice writing for a variety of purposes and audiences. They will refine their abilities to handle conventional matters of grammar, punctuation, spelling and usage. Vocabulary work, oral reading,

speeches, reports, and memory work may also be included. All English I, Accelerated English I and Accelerated English I-A students must successfully complete a Personal Narrative, Memoir or Essay before progressing to the next grade level of English. English I will incorporate more workplace-oriented instruction than the accelerated courses.

English II**Accelerated English II****Grade: 10****Credit: 1*****Prerequisite for Accelerated English II: Teacher recommendation.***

These classes will continue the refinement of students' skills in language arts. Students will read, respond to and interpret various types of literature and journalistic writings. They will continue their study of the writing process. Basic skills of grammar, usage, speaking, listening and composition will be integral parts of the course. Additionally, students must successfully complete a short story or poem to proceed to the next grade level of English. English II will incorporate more workplace-oriented instruction than the accelerated classes.

English III**Accelerated English III****Grade: 11****Credit: 1*****Prerequisite for Accelerated English III: Accelerated English II and/or teacher recommendation.***

These classes will study American literature from colonial times to the present, using representative essays, poems, short stories, novels and dramas to examine the distinct literary thought in these works for their relevance to and influence on the present. Compositions, reflecting the writing process and presented throughout this course, will direct students in critical analysis and methods of forceful argument, effective persuasion and clear explanation. All English III and Accelerated English III students must successfully complete the Research Project to progress to the next grade level of English. English III will incorporate more workplace-oriented instruction than the accelerated classes.

AP English Language & Composition**Grade: 11****Credit: 1*****Prerequisite: Teacher recommendation***

The AP Language & Composition course is designed to enable students to read complex texts with understanding and to write prose of sufficient richness and complexity to communicate effectively with mature readers. This course provides a rewarding educational experience for the able student in high school, and enables exceptional students to earn college credit. Students receive college-level instruction in two main areas: analysis of prose from a variety of sources, rhetorical modes, historical/literary periods, and disciplines leading to intelligent discussion of prose style, content, and rhetoric; and, composition in a variety of modes for a variety of purposes, developing expository and analytical writing skills – skills essential to success in college and beyond. Students predominantly study examples of prose (non-fiction), although fiction and poetry also play a role in AP Language & Composition. Readers become aware of how stylistic effects are achieved by writers' linguistic choices. Readings come from various fields and periods, serving as models of effective writing which students will emulate and incorporate into their own emerging styles. Students must also have very strong reading and writing skills. They are required to take the AP exam. They are also required to write a persuasive research paper to advance to the next grade in English.

English IV**Accelerated English IV****Grade: 12****Credit: 1*****Prerequisite for Accelerated English IV: Accelerated English III or AP English Composition and/or teacher recommendation.***

These classes will continue refinement of students' abilities in language arts skills. Content will include

appropriate experiences in both oral and written presentations and in the historical, cultural, and aesthetic significance of English literature. Continuing to write for a variety of purposes and audiences, students will attain confidence in handling the stages of the writing process. Special attention to writing about literature is given in the accelerated curriculum. Language and mechanics concerns are dealt with in the context of student writing. English IV will incorporate more workplace-oriented instruction than Accelerated English IV. A portfolio of writing in which students must rank Apprentice or above is required.

AP English Literature

Grade: 12

Credit: 1

Prerequisite: Successful completion of Accelerated English II and Accelerated English III or AP English Composition. A score of 25 for the English and Reading sections of the ACT or its equivalent on the SAT OR recommendations from two previous English teachers will be required.

Advanced Placement English IV will emphasize the development of skill in critical reading of literature and in writing about literature. This course is for students capable of doing college-level work in English while they are in high school. Students should be willing to devote the energy necessary to complete a course more rigorous and demanding than other high school English courses designed for the college-bound student. **SUMMER READING IS REQUIRED AND MUST BE COMPLETED** during the summer between the junior and senior years. The fall semester will begin with papers addressing this reading. Students will develop a portfolio of writing which must rank as at least Proficient in quality to receive credit for Advanced Placement English IV. Credit will be given for Accelerated English IV if the student passes the coursework for AP but submits less than a Proficient portfolio. **The AP English exam is required.**

Journalism I

Grade: 9 – 12

Credit: 1

This course is an introduction to journalism and is a required prerequisite for taking Journalism II, being a part of the *Smoke Signals* newspaper staff, or the GRC Online staff. The course introduces students to all facets of the journalist's craft: reporting, news writing, feature writing, opinion writing, design and photography; and also includes discussions of other media forms. The course covers the First Amendment and journalism law and ethics. Students are expected to produce journalistic pieces of writing.

Journalism II

Grade: 10-12

Credit: 1

Prerequisite: Teacher Approval and Journalism I REQUIRED

This second-level journalism course is designed to help students advance their skills in interviewing, reporting, and writing. It is designed for students with strong writing skills, an interest in journalistic writing, and a desire to become editors of the school newspaper. Students will produce pieces for publication in the student newspaper, and will be considered *Smoke Signals* staff writers. Students will begin learning newspaper design and production, as well as the business management aspect of the newspaper. When writing for real-world publication, students deepen their understanding and application of vision, clarity and purpose in written communication, as well as develop vital life skills such as time management, teamwork and self-motivation.

Smoke Signals Production

Grade: 10 – 12

Credit: 1

Prerequisite: Teacher Approval and Journalism I and II REQUIRED

EXTRA! EXTRA! READ ALL ABOUT IT!

A course that's truly one of the best "school-to-work" experiences! Students have an opportunity to be a working staff member of the monthly high school newspaper. Students will develop writing skills in hard news stories, features, columns and editorials; demonstrate skills in news photography, develop marketing skills by selling advertising in the community, and master the production end by learning mock-up techniques, headline construction, photography, page design, and advertising. Consecutive semesters will

offer a journalism student quality writing experiences for college or for a career in journalism. When writing for real-world publication, students deepen their understanding and application of vision, clarity and purpose in written communication, as well as develop vital life skills such as time management, teamwork and self-motivation.

GRC Online Production**Grade: 10 – 12****Credit: 1*****Prerequisite: Teacher Approval and Journalism I REQUIRED***

Reporting the news is as old as communication itself, but the methods continue to advance with technology. This course will study the impact and importance of online journalism, acknowledging the World Wide Web as a popular source for news and information. The hands-on, writing-for-publication course will maintain the GRC website, making necessary daily updates. The students will learn the value of a strong web presence by actually creating one. The course will encompass technology, public relations, photojournalism, newsgathering and reporting, and community connections. When writing for real-world publication, students deepen their understanding and application of vision, clarity and purpose in written communication, as well as develop vital life skills such as time management, teamwork and self-motivation.

Cardinal Yearbook Production**Grade: 12****Credit: 2*****Prerequisite: Application and Instructor approval*****The class will produce the high school yearbook for George Rogers Clark.**

Members of the staff are expected to have a high level of maturity and the ability to work independently. This is a wonderful opportunity for members of the team to exercise their creativity, while developing new skills in computer design, photography, marketing, budget management, copy writing, and project management. Creating the yearbook is a fun process and the end result of all the effort is a product of which the students can be proud. A strong commitment to meeting deadlines is required, including any necessary weekend, after-school or summer work. The yearbook is a team effort, and strong people skills are required.

Creative Writing**Grade: 10 – 12****Credit: 1*****Prerequisite: Teacher Recommendation***

If you want to improve your writing skills, then view this accelerated elective course as an excuse to make time in a busy life for more writing! We experiment with ideas and prewriting in journals. Writing every day, we start with exercises to develop community and a common vocabulary and move quickly into activities that may include poetry, short stories, screen plays, children's story books, memoirs, essays and other creative writing projects. You will learn to express your ideas with greater effectiveness! We'll provide an audience for you to hone your skills, and you'll be that audience to help others improve their writing. Come write with us!

Public Speaking & Debate**Grade: 9 – 12****Credit: .5**

Public speaking and debate enables students to acquire confidence and poise as they develop skill in speaking before groups of any size. From fun, silly speeches to formal ones, students will be encouraged to develop their own thoughts, feelings, and personal attitudes into effective messages to address specific situations. In addition, students will study the basic formats of formal debate and will participate in organized debates in class.

English Grammar**Grade: 11-12****Credit: .5**

This class is a comprehensive study of the principles and rules that are used to organize words and sentences into coherent, meaningful language. The course will include usage problems associated with grammar in both speech and writing. Emphasis will be placed on grammar, usage, mechanics, punctuation, writing strategies, organization, and style. The course will be helpful in preparing for the English and reading portions of the ACT test.

Contemporary Literature**Grade: 11-12****Credit: .5**

In this class, students will read novels, drama, and poetry from the later part of the twentieth century through the present in order to understand forces and influences which shape modern life. Contemporary concerns about the individual, family, race, and gender will provide a focal point for discussion. National issues concerning diversity and culture will also be addressed. Vocabulary and literary techniques of writing will also be an important part of the class curriculum.

Theatre Arts I**Grade: 9 – 12****Credit: .5**

Come join the fun! It's time for DRAMA! Hey, there's a part of Theatre for EVERYONE! Learn acting and performance skills that will start you on the path to STARDOM. This course will also focus on the technical elements of theatre, including an introduction to scene, make-up, lighting, costume, and sound design. This course is designed for participation in various performance and design activities. We will study basic theatrical and stage rules and apply them in our performances and projects! Students will have the opportunity to work on a live stage production, either on stage or off! Theatrical experience, however, is NOT necessary. This course above all is meant as a creative outlet and a confidence booster! Everyone has the ability to "do" theatre, so give it a try!

Theatre Arts II**Grade: 9 – 12****Credit: .5*****Prerequisite: Theatre Arts I***

Move over Steven Spielberg! Make way Julia Roberts! The next big name in the performing arts is right here at GRC! Whether you want to act, direct, design, or build scenery Theatre at GRC is the place for you! Theatre Arts II is a continuation of Theatre Arts I with more advanced study of acting and design skills. Students will also study directing, stage management, the history of the Theatre and read and evaluate modern literary classics of the stage. Students will, as always, have the opportunity to work on a live stage production, either on stage or off! Students will study basic rules and apply them in our performances and in the critiquing of a live stage performance.

The Bible as Literature: The Old Testament**Grade: 10 – 12****Credit: .5*****Prerequisite: Good reading comprehension skills are needed.***

Meet Abraham and his descendants in stories about faith, hope and love. Read about their struggles and their birth as a nation.

The Bible as Literature: The New Testament**Grade: 10 – 12****Credit: .5*****Prerequisite: Good reading comprehension skills are needed.***

Discover the story of Jesus and his teachings. Learn about the early church history and the prophetic message of Revelation.

MARKETING EDUCATION

Retail Marketing

Grade: 10 – 12

Credit: 1

This course includes skills necessary for retail store operations. It is a prerequisite to Advanced Marketing and Co-op. It is designed for students to develop skills in ordering, receiving, stocking, inventory, and selling of merchandise. Students study in depth the types of selling, psychology of selling, and the skills and techniques of sales promotion. Employability skills are an integral part of the instruction. Students are encouraged to join the vocational student organization, Distribution Education Clubs of America (DECA).

Seniors who would like to take the advanced marketing co-op will need to complete requests for 7 credits other than the co-op credits. A complete schedule without co-op will be built for all students. Seniors who would like to take co-op must complete an application and be accepted prior to their schedule having co-op added. These changes will occur in the fall. Applications will be available in the counseling center during the month of June. Unexcused absences from the 2009-2010 school year will be one of the factors on the application for co-op. If a student has 6 or more unexcused absences for the 2009-2010 school year, they will not be eligible for co-op during the 2010-2011 school year. Other factors such as disciplinary referrals and credits toward graduation will also be part of the application to determine eligibility. Student enrollment in this course will be terminated if the unexcused absence total in a current semester is more than 3.

Advanced Marketing

Grade: 12

Credit: 1

Prerequisite: Retailing and teacher recommendation

Students selected to take these courses **must** have completed the Retailing course. These courses are designed for students to further develop job skills in the marketing industry. Students explore the rewards and risks of business ownership. Emphasis is given to the characteristics of successful entrepreneurs; planning, organizing, and beginning a business; financing and managing the enterprise; franchising opportunities; sources of financing. Students must work in an approved marketing related training station to receive early dismissal. Students are encouraged to join DECA. This course is offered during the last period of the day.

MATHEMATICS

Algebra I

Grade 9-10

Credit: 1

Prerequisite: Teacher recommendation and pretest score.

The objectives of Algebra I are to develop strategies for solving non-routine problems and give students an understanding of algebra by emphasizing concept, structure, and applications. Topics will include the real number system, number theory, algebraic expressions and sentences, solving and graphic equations and inequalities, relations and functions, graphing and writing linear equations, an introduction to systems of equations, operations with monomials and polynomials, factoring polynomials, and radical expressions.

Acc. Geometry (for rec. 9th grade students)**Geometry****Grade: 10 –12****Credit: 1*****Prerequisite: Teacher approval***

This course should focus on discovery and realistic applications of geometric relationships and principles. Topics include constructions, inductive reasoning, points, lines, planes, angles, triangles, parallel & perpendicular lines, planar figures, similarity and congruence, circles, three-dimensional geometry, perimeter, area, volume, trigonometry, coordinate geometry, and transformations.

Acc. Algebra II (for rec. 10th grade students)**Algebra II****Grades 10 – 12****Credit: 1*****Prerequisite: Teacher approval***

This course expands the mathematical concepts of Algebra I and Geometry. Topics include Expressions, equations, inequalities, the complex number system, matrices, quadratic equations, graphs of functions and relations, polynomials, exponential and logarithmic functions, arithmetic and geometric sequences & series, probability, radical expressions and equations, and rational expressions.

In compliance with Senate Bill 1, all seniors will be placed in a math class based on their ACT Math subscore in order to help them meet the college readiness benchmark which is a 22. Students scoring below a 22 will be placed in a course to focus on improving this score so that fewer developmental math courses will be necessary at college. There are typically three levels of developmental math courses offered at college and each course will cost about \$900. Students must pass the course at college, but will not receive college credit for the course. The goal with this approach is to reduce the number of students needing developmental math at college and therefore saving those students money. If you have questions about this, see your math teacher or counselor.

The following courses may be taken only if a student scores a 22 or higher on the Math portion of the ACT.

Pre-Calculus/Trig**Grade: 11 – 12****Credit: 1*****Prerequisite: Teacher approval (Students must earn an A or B in GSAT III)***

This course is intended for students who plan to take a calculus course in high school or college. Topics studied are equations of lines, circles, parabolas; factoring, graphing and solving polynomial equations and functions; complex numbers; binomial theorem; logarithms; trigonometry and analytic trigonometry. Appropriate use of calculators and computers will be integrated. Graphing calculators are required. Summer review packet of pre-requisite concepts must be completed before school begins. Test over concepts will be given during the first week of school. **This class is NOT RECOMMENDED for students who have earned a credit in Acc. GSAT III.**

Adv. Topics in Math**Grade: 12****Credit: 1*****Prerequisite: Teacher approval***

This course is designed to allow students to pursue topics in mathematics beyond the scope of the Program of Studies or the Core Content for Assessment and may cover topics from combined higher level courses or topics which are not found in other higher level courses. Summer review packet of pre-requisite concepts must be completed before school begins. Test over concepts will be given during the first week of school.

AP Calculus**Grade: 12****Credit: 1*****Prerequisite: Teacher approval***

This course follows the curriculum established by the College Board and prepares students to take Advanced Placement examinations in Calculus AB or Calculus BC. This is the fifth class in a five -year program and is intended for students planning a career in mathematics or science-related fields. Graphing calculators are required. Summer review packet of pre-requisite concepts must be completed before school begins. Test over concepts will be given during the first week of school.

AP Statistics**Grade: 11 – 12****Credit: 1*****Prerequisite: Teacher approval***

This course follows the curriculum established by the College Board and prepares students to take the Advanced Placement examination in Statistics. This course is intended for students planning a career in mathematics, engineering, or science-related fields. Graphing calculators are required. Summer reading and assignments required and must be completed before school starts.

MUSIC**Concert Choir****Grade: 9 – 12****Credit: 1*****Prerequisite: Audition***

This class will act as the beginning choir for incoming freshmen and other students who need additional help with reading music and singing. This class will also expose students to many different styles of music allowing them to sing 2, 3 or even 4 part music.

Cardinal Singers**Grade: 10 – 12****Credit: 1*****Prerequisite: Audition***

This class is designed to give students a varied background in choral music. We will sing every genre from Broadway to Madrigals that date to the Renaissance period of music. This class will act as an extension of music theory involving ear training, reading music, and basic notation. This class will allow students to develop healthy vocal techniques that can carry on into college and a possible career in music.

Chamber Choir/Women’s Choir/Show Choir**Grade: 10-12****Credit: 1*****Prerequisite: Audition***

This class is designed to be an advanced study into choral and vocal music. The ensemble will depend on the number of people who audition and the number of males that audition. If not enough try out, the choir will be an Advanced Women’s Choir. In the fall, these students will perform a madrigal dinner or small Christmas production for some of the elementary schools. In the spring, the group will sing for contest and also become a show choir that will perform various styles of music. This class is intended for students wishing to study more advanced literature and who are willing to possibly dance for various audiences.

Commercial Music**Grade: 10 – 12****Credit: 1*****Prerequisite: Audition and approval of instructor***

This class is designed for the top singers and instrumentalist in the school, and students that are planning to pursue music as a possible career. There will be 6-8 vocalists and a full band (drums, keyboards, bass

guitar and electric guitars). Students will perform in the community, at half time of ballgames and other venues. Students will receive instruction in vocal production, reading music, playing instruments and performance techniques. All students will prepare a recital (both vocal and instrumental) each semester as well as performing for the class on a weekly basis.

Basic Music Theory

Grade: 10 – 12

Credit: 1

This class is designed for students who wish to learn how to write music without taking the AP test. This class is designed for basic instruction and introduction into music theory. Students should be advised to take Basic Theory before AP Music Theory. This class will do ear training, write simple melodic lines and harmonies, analyze music, and learn all the basic functions, symbols and terminology of music theory.

AP Music Theory

Grade: 10 – 12

Credit: 1

Prerequisite: Must play an instrument/sing/read music or consent of the instructor

A major component of any college music curriculum is a course introducing the first-year student to musicianship, theory, musical materials, and procedures. Such a course may bear a variety of titles (Basic Musicianship, Elementary Theory, Harmony and Dictation, Structure of music, etc.). It may emphasize one aspect of music, such as harmony; more often, however, it integrates aspects of melody, harmony, texture, rhythm, form, musical analysis, elementary composition, and to some extent, history and style. Musicianship skills such as dictation and other listening skills, sight-singing, and keyboard harmony are considered an important part of the theory course, although they may be taught as separate classes. The student's ability to read and write musical notation is fundamental to such a course. It is also assumed that the student has acquired at least basic performance skills in voice or on an instrument. Students taking this course will be expected to take this exam.

Symphonic Band

Grade: 10 – 12

Credit: 1

Prerequisite: Director approval

This is an advanced band that requires an audition and/or director approval for enrollment. Students will play standard Wind Band Repertoire as well as receive technical instruction. They will be challenged on a daily basis, and attendance is critical for success. Assessment will be based on attendance, performance skills, and academic preparedness.

Concert Band

Grade: 9 – 12

Credit: 1

Prerequisite: At least two years of instrumental instruction

Students will play standard Wind Band Repertoire as well as receive technical instruction. They will be challenged on a daily basis, and attendance is critical for success. Assessment will be based on attendance, performance skills, and academic preparedness.

Jazz Band

Grade: 9 – 12

Credit: 1

Prerequisite: Director approval

Students will play standard jazz literature as well as learn jazz theory and basic improvisational techniques. Assessment will be based on attendance and performance skills.

Orchestra

Grade: 9 – 12

Credit: 1

This course is designed for students with previous experience playing the violin, viola, cello and/or the string bass who want to learn to play a classical instrument.

SCIENCE**Interdisciplinary Science****Grade: 9****Credit: 1**

This course primarily encompasses the study of earth and space science organisms and fulfills the state mandated required earth/space course. Additionally, this course will highlight basic concepts of physics and chemistry. Studies will include, but are not limited to, geology, weather and climate, astronomy and the solar system. Group projects, laboratory activities and writing assignments will be used to assist in the understanding of the concepts being studied.

Biology I**Grade: 10****Credit: 1**

This course involves a comprehensive study of living organisms and fulfills the state mandated required life science course. Course studies involve microscopic organism to **multicellular** organisms and their mechanisms. The ability to learn terms, theories, and concepts is essential. Laboratory work, group/individual projects, and writing assignments will be integral parts of certain units. Biology emphasizes scientific reasoning and critical thinking in a hands-on learning approach.

Accelerated Biology I**Grade: 10****Credit: 1****Teacher recommendation only**

This course involves a rigorous and comprehensive study of living organisms and fulfills the state mandated required life science course. This class is structured to prepare the dedicated student for the AP Biology course if they so desire. Course studies involve microscopic organism to **multicellular** organisms and their mechanisms. The ability to learn terms, theories, and concepts is essential. Laboratory work, group/individual projects, and writing assignments will be integral parts of certain units. Biology emphasizes scientific reasoning and critical thinking in a hands-on learning approach.

AP Environmental Science**Grade: 10****Credit: 1****Prerequisite: Teacher approval and the successful completion of Interdisciplinary Science**

This course follows the curriculum established by the College Board and prepares students to take the Advanced Placement examination in environmental science. This course is intended for students planning a career in science-related fields. This course will also include an emphasis on biology so as to meet the biology requirement for graduation.

Special Topics Biology: Forensics**Grade: 11 – 12****Credit: .5****Prerequisite: Biology required; Chemistry recommended; teacher recommendation**

G.R.C.'s version of CSI. This course will enable student to solve forensic mysteries and will explore in-depth issues relating to the field of forensic science. Examples of some of the issues that will be covered are: anthropology, **osteology**, print analysis, handwriting analysis, blood droplets, hair analysis, and other science seen in CSI shows. This course is designed for students interested in health, human services, agriculture, law, public service and forensic careers.

Special Topics Biology: Infectious Diseases**Grade: 11 – 12****Credit: .5****Prerequisite: Biology required; Chemistry recommended; teacher recommendation.**

IT MUST HAVE BEEN SOMETHING YOU ATE. Bacteria, viruses and other microscopic organisms

that cause epidemics and pandemics will be researched through hand-on labs and activities. This course, with the study of microscopic organisms, will cover the core content of biodiversity, genetic variability, finite resources and natural selection. It is designed for students interested in health, human services, public service, education and forensic careers.

AP Biology**Grade: 11 – 12****Credit: 1*****Prerequisite: Chemistry, Biology and teacher recommendation.******Must be taken in conjunction with Special Topics Biology***

The College Board's Advanced Placement (AP) Biology program provides able and motivated students with an opportunity to pursue college-level biological studies while still in high school. AP Biology is designed to be the equivalent of a college introductory biology course usually taken by biology majors during their first year. Topics, such as Molecules, Cells, Genetics, Evolution, Organisms and Populations will be comprehensively studied. Twelve AP Laboratory experiences will accompany instruction. During May, the AP Biology students will be offered the College Board Examination. A successful grade in this examination may allow colleges to award credit to incoming freshmen. Students requesting this course must see the teacher before the end of the 2006-2007 school year to pick up the summer assignments.

Special Topics Biology**Grade: 11 – 12****Credit: 1*****Prerequisite: Must be taken in conjunction with AP Biology***

This course provides a preview of the concepts covered in AP Biology. AP Biology testing methods will be covered. Students completing this course will be prepared to take the AP Biology Exam.

Conceptual Chemistry**Grade: 10 – 12****Credit: 1*****Prerequisite: Successful completion of Biology***

This course presents chemical concepts through topics surrounding work, home society and the environment. It addresses issues of problem solving, decision-making and laboratory investigation using minimal mathematics. Topics covered include atomic structure, periodic trends, chemical bonding, chemical nomenclature and chemical reactions.

Chemistry**Grade: 10 – 12****Credit: 1*****Prerequisite: Successful completion of Biology and GSAT II***

This course presents chemical concepts through topics surrounding work, home, society, and the environment and fulfills the state mandated physical science course. It emphasizes problem-solving, decision-making, and hands-on learning.

Accelerated Chemistry**Grade: 10 – 11****Credit: 1*****Prerequisite: Teacher recommendation only***

This course presents chemical concepts through topics surrounding work, home, society and the environment. It fulfills the state mandated physical science course. It emphasizes problem-solving, decision-making and hands-on learning. This course is structured to prepare the dedicated student for AP Chemistry if they so desire.

AP Chemistry**Grade: 11 – 12****Credit: 1*****Prerequisite: Biology I, Chemistry I, and teacher recommendation.******Must be taken in conjunction with Special Topics Chemistry***

The College Board's Advanced Placement (AP) chemistry program provides able and motivated students with an opportunity to pursue college-level chemical studies while still in secondary school. AP chemistry is designed to be equivalent to an introductory level college chemistry course primarily taken by chemistry majors. Topics, such as molecular geometry, reaction rates, reaction mechanisms, etc. will be comprehensively studied. During May, the AP Chemistry students will be offered the College Board examination. A successful grade on this exam may allow colleges to award credit to incoming freshman. Students requesting this course must see Mr. Jefferson before the end of the 2006 - 2007 school year to pick up the summer assignments.

Special Topics Chemistry**Grade: 11 – 12****Credit: 1*****Prerequisite: Must be taken in conjunction with AP Chemistry***

This course provides a preview of the concepts covered in AP chemistry. AP Chemistry testing methods will also be covered. This course will prepare students to take the AP Chemistry Exam.

Anatomy and Physiology**Grade: 11 – 12****Credit: 1*****Prerequisite: Teacher recommendation, Biology I and Chemistry I, teacher recommendation***

This course deals with the detailed study of the structures and functions of the human body and corresponding laboratory work. Topics covered include anatomical language, cells and tissues, and all body systems. A dissection of a fetal pig is required. The practicum part of the class will include two lab practical's administered over tissues and the dissected fetal pig. This course is recommended for students planning a medical or nursing career.

Physics**Grade: 11 – 12****Credit: 1*****Prerequisite: Algebra II and Geometry and teacher recommendation (Geom. may be taken concurrently with Physics)***

This course provides a systematic study of fundamental concepts and principles that are the foundation for understanding the physical universe. This includes such topics as Newton's laws of motion and gravitation, energy, and electricity. Emphasis is given to developing a conceptual understanding and a mathematical approach to interpreting physical phenomena and solving problems. Laboratory activities are designed for exploration, concept-development, and application of the principles presented in the classroom.

AP Physics (B)**Grade: 11 – 12****Credit: 1*****Prerequisite: Pre-Calculus and Physics******Must be taken in conjunction with Special Topics Physics***

AP Physics is representative of courses offered in colleges and universities. This course provides a foundation for students interested in the life sciences, pre-medicine, and some applied sciences. This course provides a systematic introduction to the main principles of physics and emphasizes the development of problem-solving skills. Students completing this course will be prepared to take the AP Physics exam. Students requesting this course must see Mr. Cowan before the end of the 2006 - 2007 school year to pick up the summer assignments.

Special Topics Physics**Grade: 11 – 12****Credit: 1*****Prerequisite: Must be taken in conjunction with AP Physics.***

This course provides a review of the concepts covered in AP Physics, including mechanics, thermodynamics, vibrations and wave motion, electromagnetic theory, optics, and modern physics. Physics (B) testing methods will also be covered. Students completing this course will be better prepared to take the AP Physics (B) exam.

SOCIAL STUDIES**Applied Civics****Grade: 9****Credit: 1**

This required freshman course is an integrated examination of the role and influence of government in our lives and relationships. American government and its connections to cultural, economic, geographical, political and historical aspects will be the focus of the course. The class will inform and empower students of their rights and responsibilities as citizens of the United States.

World Civilization**Grade: 10 – 12****Credit: 1**

World Civilization is a global history course with an emphasis on the world since 1500 (the modern world). This class provides an opportunity to understand and appreciate various cultures of the world. While it is organized around history, the course is interdisciplinary including geography and politics and some philosophy, literature, art, music, and anthropology. Students have an opportunity to work as historians by examining evidence and thinking critically. Use of primary sources, maps, videos, simulations, plays, student video productions, and individual projects are some of the ways students have opportunities to learn.

AP European History**Grade: 10****Credit: 1 each*****Prerequisite: Recommendation of 9th grade social studies teacher(Meets World Civ. Requirement)***

Questions in cultural, diplomatic, economic, intellectual, political, and social history form the basis for the class. Students will demonstrate a knowledge of basic chronology of major events and trends from approximately 1450 to the present. Students will develop an understanding of some of the principal themes in modern European history, an ability to analyze historical evidence, and an ability to analyze and express historical understanding in writing.

U.S. History**Grade: 11 – 12****Credit: 1*****(Requirement for graduation)***

This course focuses on America's history from the reconstruction period to the present. The course examines the forces that shaped and continue to shape political, economic, and social institutions that impact the development of the U.S. in the twentieth century.

Accelerated U.S. History**Grade 11 – 12****Credit: 1*****Prerequisite: Teacher recommendation and completed WC with B or higher***

Accelerated US History is a rigorous, fast-paced course that is meant to emphasize preparation for college. The class covers US history from Reconstruction to the present day as well as reinforcing key social studies content from previous years, while stressing essential skills for college. Students should expect a

substantial amount of reading in this course from both the textbook and from primary sources. This course is reading and writing intensive and students will be required to complete a research paper.

AP American History**Grade: 11****Credit: 1*****Prerequisite: Teacher recommendation***

This course is intended for qualified students who wish to complete studies in secondary school and earn college credit. The course is designed to provide students with the analytical skills and factual knowledge necessary to deal critically with the political, social, economic, and ideological development of the U.S.

Psychology**Grade: 11 – 12****Credit: .5**

Psychology is the scientific study of mental processes and behavior. Topics include the history of psychology, brain function and development, sleep and dreams, sensation and perception, learning and memory, theories of development, language and cognition, research methods, emotion, mental illness, and therapy. This class writing intensive and requires the completion of a research paper.

Sociology**Grade: 11 – 12****Credit: .5**

Sociology is the scientific study of society and human social interaction. In this introductory level course we will examine and analyze how social structures and cultures are created, maintained, and most importantly, how they affect behavior. This class is writing intensive and requires the completion of a research paper.

21st Century Problems**Grade: 12****Credit: .5**

This course promotes an awareness of local, state, national, and international issues. Current news periodicals, newspapers, and electronic media are sources utilized. Students will examine current U.S. issues and world “hot spots.” Mock trials and persons with expertise in political issues will be utilized in the course.

AP Human Geography**Grade: 11-12****Credit: 1*****Prerequisite: Teacher recommendation***

This course is designed for students who desire a college-level course in geography. The purpose of the AP course in Human Geography is to introduce students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of the Earth’s surface. Students employ spatial concepts and landscape analysis to analyze human social organization and its environmental consequences. They will also learn the methods and tools geographers use in their science and practice to further see the correlation between science and real life. Students in this AP course will be expected to take this exam.

AP U.S. Government and Politics**Grade: 12****Credit: 1*****Prerequisite: U.S. History and teacher recommendation***

This is a college level introductory course in American Government. The AP Government and Politics course provides students with an analytical perspective on government and politics in the United States. Students will examine our governmental institutions and process through an analysis of Constitutional underpinnings of the US Government, political beliefs and behaviors, political parties, interest groups and mass media, institutions of national government, public policy, civil rights/civil liberties. The Advanced

Placement Examination will be offered by the College Board in May. Students in this AP course will be expected to take this exam.

Survey of the Classical World**Grade: 11 – 12****Credit : .5*****Prerequisite: World History***

A broad look at the political, social, economic, and cultural aspects of the ancient world. The course begins with the ancient civilizations of the Near East and ends with the fall of Rome. The majority of the course will focus on the classical Greeks, the age of Alexander the Great and his successors, the Roman Republic, and the Roman Empire.

SPECIAL EDUCATION**Literature****Grade: 9****Credit: 1*****Prerequisite: Teacher recommendation***

This course is designed to help students improve their basic reading skills and reading comprehension. Study skills and organizational skills will be emphasized.

Study Strategies**Grade: 9 – 12****Credit: 1*****Prerequisite: Teacher recommendation***

This course is designed to assist students with their organizational and study skills, time management, use of available resources to learn, test taking and use of technology. This course may be repeated for additional credits.

Career Exploration**Grade: 11-12****Credit: 1**

This course will provide opportunities for students to explore different careers and to develop skills needed for job entry. Some skills that will be addressed are resume writing, interviewing, and other soft skills needed in virtually every job.

Life Experiences**Grade: 10-12****Credit: 1**

This course will provide students with a wide range of skills necessary for a successful transition from an academic setting to being a citizen in a community. Skills will be addressed that will benefit the individual student such as cooking, budgeting, meal planning, checking accounts, counting money, etc.

Martial Arts**Grade: 9 – 12****Credit: .5**

This course will provide a physical education class where students will learn martial arts where the integral components of the curriculum are based on discipline and respect. This course will focus on developing minds and bodies in order to promote a peaceful lifestyle. This course will meet the PE requirement for graduation.

English I '500'**Grade: 9****Credit: 1**

The content of the course develops skills in vocabulary development, reading comprehension, and spelling.

The class places emphasis on grammar content, and writing compositions. Literature and reading experiences are part of the course design.

English II '500'**Grade: 10****Credit: 1**

The content of this course will emphasize developing skills in listening, speaking, writing, and interpreting various types of literature. Students will use composition, journal entries, and grammar usage to improve written expression.

English III '500'**Grade: 11****Credit: 1**

This course will emphasize individual reading and writing skills, including written expression. The class includes a strong emphasis in grammar and composition. Students learn to select reading materials for information and for pleasure. Students will study the authors and works of American literature from colonial times to the present.

English IV '500'**Grade: 12****Credit: 1**

This course emphasizes generating ideas and writing them into a meaningful sequence. Individual conferences address correct usage and mechanics of the student's writing. Fluency and meanings are primary focus. As a class requirement, the student will complete a writing portfolio. Students will study the authors and works of British literature.

Integrated Math I '500'**Grade: 9****Credit: 1**

This course is designed to develop skills in connecting to the interdisciplinary areas of consumerism, algebra, geometry, and to enhance learning in the various areas of mathematics.

Integrated Math II '500'**Grade: 10****Credit: 1**

This course is designed to continue algebra, geometry, business math, statistics and probability with other mathematical concepts throughout the class.

Integrated Math III '500'**Grade: 11****Credit: 1**

This course is designed to enhance the ability to grasp concepts and skills as they are used in real-world application: such as, problem solving, strategy, career-oriented projects, and a continuation of the concepts taught in the previous course.

Integrated Math IV '500'**Grade: 12****Credit: 1**

This course is designed to strengthen mathematical and problem solving skills and concepts, using technology related lessons and applications for the real world.

PEER TUTORING

Peer Tutoring I A

Peer Tutoring I B

Grade: 11 – 12

Credit: .5 or 1

Prerequisite: *Teacher approval and application*

This course is an elective class for students without disabilities to gain experience working with same-aged students with severe cognitive and physical disabilities in educational settings. Peer tutoring increases access to the general curriculum and to all the activities of a typical high school student for students with moderate to severe disabilities. This course promotes positive social interactions and social relationships to develop between students with and without severe disabilities. *Interested students must go through a selection process.*

WELDING TECHNOLOGY

Introduction to Career and Technical Education

Grade: 9

Credit: .5

This course will provide students an opportunity to explore courses in automotive, carpentry, health sciences, information technology, and welding. Students will learn and practice safety and employability skills. There will be opportunities to participate in hands-on activities using tools and equipment in each program area.

Students completing a series of courses in the Welding Technology Program may earn one or more of the following certificates:

ARC Cutter

Gas Metal Arc Welder (GMAW) A

Tack Welder A

Welder Helper A

Welding—Basic Welding A

Grade: 9 – 12

Credit: .5

Prerequisites: For freshmen and first year seniors only

This course provides an introduction to welding, cutting processes, and related equipment. Basic setup, operation, and related safety are applied. (Kentucky Community and Technical College dual credit courses Basic Welding A WLD 151)

Welding—Welding Blueprints

Grade: 10 - 11

Credit: 1

Corequisite: Cutting Processes

Prerequisites: Entry into Welding Technology Program

This course provides a study of occupationally specific prints for welders. Advanced study of multiview drawings, assembly drawings, datum dimensions, numerical control drawings, sheet metal prints, casting and forgings, instrumentation and control charts and diagrams, working drawings, geometric dimensioning and tolerance and use of reference materials and books are included. Occupational specifics including welding drawings, symbols, joint types, grooves, pipe welding symbols, testing symbols, and specification interpretations are stressed. The lab experiences provide students with practice fabricating from a blueprint. Students will read and fabricate from detail prints, control distortion during fabrication and follow the proper sequence in welding a fabricated part. Students will use welding symbols and study weld sizes and strengths. (Kentucky Community and Technical College dual credit course Blueprint Reading for Welding/Lab WLD 170/171)

Welding—Cutting Processes**Grade: 10 – 12****Credit: 1****Corequisite: Welding Blueprints****Prerequisite: Entry into Welding Technology Program**

Students will learn a working knowledge of various cutting processes used by the welding industry. Instruction will include, but is not limited to, safety, theory of operation, setup and operating techniques, troubleshooting, making minor equipment repairs, terms and definitions, identification, evaluation, repair and prevention of discontinuities of cut surfaces. Students will gain experience with oxy-fuel cutting, plasma arc cutting, exothermic cutting, air carbon arc cutting, shielded metal arc cutting, and mechanical cutting process. Students will obtain practical experience to become proficient in the use of various metal cutting processes. Safety, setup, and operating techniques are employed. Students will learn to identify, repair, and prevent reoccurrence of cut surface discontinuities. Processes shall include, but is not limited to: OFC, PAC, AAC, and mechanical methods. Various materials will be used where appropriate. (Kentucky Community and Technical College dual credit courses Cutting Processes/Lab WLD 110/111)

Welding—Shielded Metal Arc Welding (SMAW 1)**Grade: 11 – 12****Credit: 1****Corequisite: Welding—Shielded Metal Arc Welding Groove with Backing Lab (SMAW 2)****Prerequisites: Cutting Processes and Welding Blueprints**

Students will identify, inspect, and maintain SMAW electrodes; learn principles of SMAW; understand the effects of variables on the SMAW process to weld plate; and discuss metallurgy. The class will offer laboratory experiences for the student to acquire the manipulative skills to perform fillet welds in all positions. (Kentucky Community and Technical College dual credit courses Shielded Metal Arc/SMAW Fillet Lab WLD 120/121)

Welding—Shielded Metal Arc Welding Groove Lab (SMAW 2)**Grade: 11 – 12****Credit: 1****Corequisite: Welding—Shielded Metal Arc Welding (SMAW 1)****Prerequisites: Cutting Processes and Blueprint Reading for Welding**

The Groove with Backing Lab provides experiences in which students acquire the manipulative skills to do groove welds in all positions with backing. (Kentucky Community and Technical College dual credit courses Shielded Metal Arc Welds with Backing Lab WLD 123.)

Welding—Gas Metal Arc Welding (GMAW 1)**Grade: 12****Credit: 1****Corequisite: Welding—Gas Metal Arc Welding Groove Lab (GMAW 2)****Prerequisites: Cutting Processes, Welding Blueprints, SMAW 1, and SMAW 2**

Students learn identification, inspection, and maintenance of GMAW machines; identification, selection and storage of GMAW electrodes; principles of GMAW; and the effects of variables on the GMAW process. Theory and applications of related processes such as FCAW and SAW and metallurgy are also included. Teaches the practical application and manipulative skills of Gas Metal Arc Welding and the proper safety situations needed in this process. Both ferrous and non-ferrous metals will be covered, as well as various joint designs on plate in all positions. (Kentucky Community and Technical College dual credit courses Gas Metal Arc Welding/Lab WLD 140/141)

Welding—Gas Metal Arc Welding Groove Lab (GMAW 2)**Grade: 12****Credit: 1****Corequisite: Welding—Gas Metal Arc Welding (GMAW 1)****Prerequisites: Cutting Processes, Welding Blueprints, SMAW 1, and SMAW 2**

This course further explores the method of operation and application of the Gas Metal Arc Welding process for welding groove welds in both ferrous and non-ferrous plate in all positions using both short circuiting and spray transfer where appropriate. (Kentucky Community and Technical College dual credit courses Gas Metal Arc Welding Groove Lab WLD 143.)