



# Ballard Memorial High School 2011 – 2012 Curriculum Guide

Greetings from Ballard Memorial High School to our current and future students, parents and community members. Our high school was built as a memorial to our veterans who served this community and our nation. We gladly continue the tradition in our lives each and every year. The desire of the high school is to give back to the community by way of developing students with a solid education and character training.

The curriculum at Ballard Memorial has been designed deliberately to ensure that our students will gain a wealth of valuable knowledge. Ballard Memorial High School also offers a variety of extracurricular activities to supplement the regular educational day.

Registration is under way for the next school year. Students may use this guide to properly prepare for their future. Please notify our guidance office or staff if there are any questions concerning this guide.

Sincerely,

Donald I. Shively, Principal  
Ballard Memorial High School

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**\*Courses listed may not be offered if the number of students signing up is not sufficient. All courses are one credit hour unless otherwise noted.**

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The mission of  
Ballard Memorial High School is to motivate  
students to high achievement through  
educational opportunities that instill pride and  
value in themselves and the community.

# Important Information

## **CLASS LOAD**

Students will carry a full load of classes, which consists of eight subjects. However, students will only have four subjects per day, and these four will rotate every other day. Students will have a green schedule and a white schedule to identify when classes will meet. Every day the students will have an Academic Enhancement class.

## **GRADE CLASSIFICATION/PROMOTION REQUIREMENTS**

Each student's grade level will be determined by the following number of credits earned:

Freshman	0 to 5.5 credits
Sophomore	6 to 13.5 credits
Junior	14 to 20.5 credits
Senior	21+ credits

We will not promote from one class to another at the end of the first semester during the school year. An exception to this would be considered if a seventh-semester student starts the year in the junior class and earns enough credits (through such things as extended school services, correspondence courses, credit recovery) to graduate in that same year.

## **GRADE REPORTING**

Progress reports will be sent home with students each Thursday afternoon. Students will be required to bring these back to school on Friday after having them signed by the parent or guardian, for a grade. Report cards are mailed home at the end of each quarter and an end-of-year report also will be mailed home.

## **ACADEMIC HONORS**

Students in the senior class shall be eligible for valedictorian and salutatorian awards if they meet the following requirements: They must be pursuing Kentucky's Commonwealth Diploma or the Honors Diploma, and must have the highest and second-highest scholastic grade point average in the class (as calculated according to SBDM policy). Honor graduate designation shall be based upon a cumulative eight-semester grade point average of 3.50 or above while pursuing the Commonwealth or Honors Diploma program.

## **SUMMER SCHOOL**

Summer school at BMHS is an extension of the regular school year. Only core classes are offered and taught in summer school. Students may attend summer school sessions if they fail one or more classes during the school year. A maximum of two credits may be made up in summer school per year.

## **CORRESPONDENCE COURSES**

A student may apply as many as three correspondence or credit recovery credits toward graduation. Both state guidelines and Ballard Memorial Site-Based Decision Making Council policy allow up to two correspondence credits to be taken during a single school term. However, the course load must not exceed a total of three to be applied toward graduation. Students must have work completed and the final exam taken by May 15 to participate in graduation exercises.

## **TESTING REQUIREMENTS**

A student must complete and demonstrate a good-faith effort on the Commonwealth Accountability Testing System (CATS). A good-faith effort also is expected on all other required assessments, such

as Kentucky Occupational Skills Standard Association (KOSSA), and ACT, PLAN and CTBS national tests.

### **SCHEDULE CHANGES**

Once classes are scheduled, it is difficult to make changes. Many of the classes have maximum enrollment limits. After final course selections have been made, changes may be considered only if the student:

- Has failed a required course.
- Is not enrolled in a course required for graduation.
- Demonstrates poor achievement in a prerequisite course and is advised by both the teacher and the counselor to change the class.

Scheduling conflicts, a lack of sufficient enrollment to offer a course, or too many in a class also may result in a schedule change. Schedule changes will NOT be made because a student dislikes a particular class or its requirements. Careful thought should be given by both parents and students when choosing classes. Schedule changes will NOT be made to avoid a teacher.

### **ATHLETIC ELIGIBILITY**

To participate on a sports team, a student must have earned at least six credits after the freshman year, 14 credits after the sophomore year, and 21 credits after the junior year. In addition, a student must be cumulatively passing six out of eight classes each week to participate.

### **GRADUATION EXERCISES**

No student who lacks sufficient credits for graduation shall be permitted to take part in graduation exercises. No student shall receive a diploma until all requirements for graduation have been fulfilled. Students must have an attendance rate of 94 percent to participate in graduation exercises. Students shall not be awarded a high school diploma on the basis of Armed Forces or GED tests.

### **DUAL CREDIT**

West Kentucky Community and Technical College has developed dual credit and articulation agreements with Ballard Memorial High School and Ballard County Career and Technical Center. Students who are concurrently enrolled in one of these schools and WKCTC may, upon completion of course requirements, earn both high school and college (dual) credit for the same course, at no cost. Students who enroll in college courses while still in high school realize many benefits, such as developing a college transcript while still in high school; experiencing college curricula; shortening the amount of time actually spent as a full-time college students; realizing financial benefits by not having to attend formal college classes; eliminating the need to stand in registration lines to enroll in college classes; and optimizing resources provided by the community and technical college.

### **DUAL ENROLLMENT**

At this time, BMHS is offering seniors an opportunity to earn college credit in English (ENG 101 and 102) and mathematics (MT 150). The cost of classes will be determined by the current tuition rate at WKCTC. These are transferable college credits for two- and four-year institutions. High-school students will experience many benefits from participating in dual enrollment, including paying low-cost tuition for college courses; developing college transcripts while still in high school; enrolling in college classes without necessarily attending the college campus; mobilizing their college plans early by taking prerequisite college coursework; and creating bridges to postsecondary education that might not materialize without this type of initiative.

# Diploma Programs

BMHS offers three diplomas: Standard Diploma, Honors Diploma and Commonwealth Diploma.

## 1. Minimum requirements for Standard Diploma:

English	4 credits	(English 9, 10, 11 and 12)
Science	3 credits	(Earth/Space Science, Biology, Intro to Chemistry and Physics or Chemistry)
Math	4 credits	(Algebra I, Geometry, Algebra II, and one math elective)
Social Studies	3 credits	(Government/Economics, World Civilization/Geography, U.S. History)
Health/PE	1 credit	
Arts/Humanities	1 credit	
Computer Apps	1 credit	
*Electives	<u>12 credits</u>	

**29 TOTAL CREDITS MINIMUM**

## 2. Minimum requirements for Honors/Pre-College Diploma:

English	4 credits	(Honors English; Senior AP English)
Science	4 credits	(Earth/Space Science, Biology, Chemistry and a choice of AP Biology <b>or</b> AP Chemistry <b>or</b> Anatomy & Physiology)
Math	4 credits	(Honors Algebra I, Honors Geometry, Honors Algebra II and Pre-Calculus <b>or</b> College Algebra <b>or</b> AP Calculus)
Social Studies	4 credits	(Government/Economics, Honors World Civilization/Geography, Honors U.S. and AP U.S. History <b>or</b> AP World Civilization)
Foreign Language	2 credits	
Health/PE	1 credit	
Arts/Humanities	1 credit	
Computer Apps	1 credit	
*Electives	<u>10 credits</u>	

**31 TOTAL CREDITS MINIMUM**

## 3. Requirements for Commonwealth Diploma:

Students may choose to seek the Commonwealth Diploma as awarded by the Kentucky Department of Education, by fulfilling the following requirements:

- Successful completion of all minimum requirements of the Honors Diploma curriculum.
- Successful completion of at least four AP courses (English, math or science, foreign language and one elective). Students must maintain a grade of C or higher in each of the four classes.
- Completion of AP examinations in at least three of the four required AP course areas.

In addition, all students must have completed the following requirements:

- Must be enrolled and attend high school for a minimum of eight semesters.
- Must complete all district- and state-mandated assessment tasks.
- Must meet all performance standards for each specific course.

# Extracurricular and School-Sponsored Events

While participating in extracurricular activities and school-sponsored events, students should understand that they are representing Ballard County Schools. Additional requirements for these students are listed below.

1. If a student is absent the day of the activity, it will result in the inability to participate. Students must be in attendance at least a half-day to participate in extra-curricular/school sponsored activities.
2. Academic eligibility is monitored on a weekly basis. Middle school students must pass four out of six classes to be eligible to participate; high school students must pass six of eight classes to be eligible to participate.
3. Students must have a minimum attendance rate of 94 percent to be eligible to miss classes to attend a school-sponsored event during regular hours.
4. Students must be in good behavioral standing to attend or participate.
5. Students assigned to Alternative School or on suspension are ineligible to participate.
6. Coaches and sponsors have the responsibility of monitoring their student representatives.

These rules and regulations cover all extracurricular and school-sponsored events, including youth and recreational leagues. Students may be dismissed from any such activity or event at the discretion of administrators.

## ARTS AND HUMANITIES

- Art I** **0911** **Grade: 9-12**  
**Prerequisite: None** **Credit: 1**  
**Elective** - Art I provides studio instruction in the basic art areas with emphasis on mixed media, clay, fiber, acrylic, chalk, paper, pen, pencil, charcoal and markers, printmaking, tempera, watercolors and oil pastels. Visual art careers, art history, appreciation, evaluation and aesthetics will be incorporated in the studio instructions. **There is a class fee of \$25 to pay for canvas and paint.**
- Art II** **1011** **Grade: 10-12**  
**Prerequisite: Art I** **Credit: 1**  
**Elective** - This course provides in-depth studio instruction in areas selected from mixed media, clay, fibers, acrylic, chalk, paper, pen, pencil, charcoal and markers, printmaking, tempera, watercolors and computer-generated drawing. **There is a class fee of \$25 to pay for three canvases and five tubes of paint.**
- Art III** **1111** **Grade: 11-12**  
**Pre-requisite: Art I, Art II and art instructor's permission** **Credit: 1**  
**Elective** - Art III provides study in 57 different areas of art. Each student will be allowed to choose a medium each nine weeks from the choices above. **Each student will be responsible for the purchase of his or her own supplies.**
- Art IV (Independent Study)** **1211** **Grade: 12**  
**Prerequisite: Art I, Art II, Art III and art instructor's permission** **Credit: 1**  
**Elective** - Art IV provides an in-depth study into studio art with students of recognized talent in an art area. A different medium will be chosen by the student each semester. **Each student will be responsible for the purchase of his or her own supplies.**
- Arts and Humanities** **1115** **Grade: 11**  
**Prerequisite: None** **Credit: 1**  
**REQUIRED** - A variety of materials, prints, videos and participatory activities are blended to provide a connection among periods, styles and cultures through the disciplines of visual arts, performing arts, history and literature. The main focus is to enable students to respond to all art forms through describing, analyzing, interpreting and evaluating, and to allow them to perceive the influence of time, place and society on the arts.
- Band** **0917** **Grade: 9-12**  
**Prerequisite: Middle School band** **Credit: 1-4**  
**Elective** - The high-school level band program is characterized by performances and rehearsals that occur outside the school day and are determined by the director. Grade evaluation is based on attendance and participation in all required activities, as well as performance capabilities. The class will be divided into two sections: 1-Woodwinds and 2-Brass and Percussion.

**Freshman Choir** **0918** **Grade: 9 GIRLS ONLY**  
**Prerequisite: None** **Credit: 1**

**Elective** - Non-auditioned – any interested girl may participate. Students must be interested in performing and must understand that there will be performances outside the normal school day. Sight-reading and theory skills will be highly promoted. Standard choral repertoire for women will be performed. Opportunities for honors choirs and other special events are possible.

**Concert Choir** **0920** **Grade: 9-12**  
**Prerequisite: None** **Credit: 1**

**Elective** - Non-auditioned – anyone interested may participate. Students must be interested in performing and must understand that there will be performances outside the normal school day. Sight-reading and theory skills will be highly promoted. Standard choral repertoire will be performed. Opportunities for honors choirs and other special events are possible.

**Music Theory** **0922** **Grade: 10-12**  
**Prerequisite: Strong music background and instructor's permission. Credit: 1**

**Elective** - Class will include the study of music fundamentals, clef sign scales and aural skills. It is intended for students planning to concentrate on music in college.



**English 11** **1102** **Grade: 11**  
**Prerequisite: English 10** **Credit: 1**  
**REQUIRED for Standard Diploma** - This course focuses on American literature and advanced elements of composition, emphasizing voice, tone and improving the writing process. Course content includes the study of poetry, essays, biographies, novels, plays and short stories. A collection of portfolio writings will be completed.

**AP English Language and Composition** **1200** **Grade: 12**  
**Prerequisite: Grade of B or higher in Honors English 11** **Credit: 1**  
**REQUIRED for Honors Diploma** - This course prepares students for the AP English Literature and Composition exam, engaging students in careful reading and analysis of nonfiction and fiction from multiple genres, periods and cultures. Writing is an integral part of this course, focusing on critical analysis of novels as well as expository, analytical and argumentative essays. Summer reading is required. A portfolio will be compiled and submitted for official assessment. **Must have an 18 or higher on ACT to receive credit for ENG 101 and ENG 102. Tuition must be paid to WKCTC if student wants to earn college credit. To earn AP status on your transcript, you must take the AP test.**

**English 12** **1202** **Grade: 12**  
**Prerequisite: English 11** **Credit: 1**  
**REQUIRED for Standard Diploma** - This course is designed to enhance skills in reading, writing and thinking. As an introduction to selected British writers, the course stresses appreciation and analysis of poetry, short stories and novels. Process writing and reference techniques are taught. A portfolio will be compiled and submitted for official assessment.

**Journalism and Yearbook** **1105/1106** **Grade: 11-12**  
**Prerequisite: Interview, parent permission, and grade of** **Credit: 2**  
**B or higher in the prior year's English class**  
**Elective: Must be taken concurrently** - This class introduces students to the unique characteristics of journalistic expression. Students write, revise, edit and proofread editorial, feature, news, sports and magazine articles. Students study the historical and cultural impact of journalism. Students will learn basic desktop publishing. Basic understanding of graphics software and typing skills are helpful. Addition to the *Beacon* (newspaper) and *Bomb* (yearbook) staffs is by appointment. The course may be repeated for a total of up to four credits.

**Reading** **1113** **Grade: 9-12**  
**Prerequisite: None** **Credit: 1**  
**Elective** - This class is designed for "reluctant" readers. It is an individualized reading program aimed at basic skills, student's reading level and interest. Classes will use a variety of reading materials and programs.

## FOREIGN LANGUAGE

### Spanish I

0921

Grade: 9-12

**Prerequisite:** Grade of B or higher in prior year's English class

**Credit: 1**

**REQUIRED for Honors Diploma** - The class begins development of four basic language skills: listening comprehension, speaking, reading and writing. Also emphasized are the culture, customs and traditions of the people whose language is being studied.

### Spanish II

1021

Grade: 10-12

**Prerequisite:** Spanish I

**Credit: 1**

**REQUIRED for Honors Diploma** - Level II continues to target the development of four basic language skills: listening comprehension, speaking, reading and writing. Traditions and customs also are emphasized while students develop language skills of present, past and imperfect tense.

### Spanish III

1121

Grade: 11-12

**Prerequisite:** Spanish II

**Credit: 1**

**Elective** - Level III continues to target the development of four basic language skills: listening comprehension, speaking, reading and writing. The emphasis is placed on the purpose of language for communication. Students improve their skills in using the language in present, past and imperfect tenses.

### AP Spanish IV

1220

Grade: 12

**Prerequisite:** Spanish III

**Credit: 1**

**REQUIRED for Commonwealth Diploma** - Level IV continues to target the development of four basic language skills: listening comprehension, speaking, reading and writing. Students will practice for the Advanced Placement Test. All reading, writing and speaking will be done in Spanish. **To earn AP status on transcripts, students must take the AP test.**

## HEALTH and PHYSICAL EDUCATION

### **Health/Physical Education**

**0915**

**Grade: 9**

**Prerequisite: None**

**Credit: 1**

**REQUIRED** - This class includes the study of the human body with an emphasis on bone and muscle structure, organ facts and functions, first aid and the study of certain diseases. One half of the course will be physical conditioning to prepare for skills required in individual and team sports. Emphasis on lifetime sports and personal fitness and wellness are also included.

### **Advanced PE**

**0914**

**Grade: 10-12**

**Prerequisite: Athletics**

**Credit: 1**

**Elective** - Students will maintain a physical fitness program for current and lifetime sports, and will learn through kinesthetic theory and physical activity.

# MATHEMATICS

## Honors Algebra I

0931

Grade: 9-10

**Prerequisite:** Grade of B or higher in Pre-Algebra;  
C or higher in Middle School Algebra

**Credit: 1**

**REQUIRED for Honors Diploma** - This course fulfills the state algebra requirement, and is recommended for students who are planning on taking higher-level math. Topics covered include linear and quadratic equations, absolute value equations, inequalities, exponents, polynomials, graphing, factoring, systems of equations, rational and radical expressions, and word problems.

## Algebra I

0932

Grade: 9-12

**Prerequisite:** None

**Credit: 1**

**REQUIRED for Standard Diploma** - This course fulfills the algebra requirement set by state standards. It is designed to reinforce concepts studied previously and to lay the foundation for new concepts in problem solving, math communication and reasoning. Topics include real number systems, symbols, expression, equations, inequalities, ratios, proportions, percents, exponents and rational and radical expressions. **This course is not preparation for Honors Algebra II.**

## Honors Algebra II

0933

Grade: 9-12

**Prerequisite:** Grade of C or higher in Honors Algebra I  
and Honors Geometry (may be taken concurrently)

**Credit: 1**

**REQUIRED for Honors Diploma** - This course is designed to expand on the concepts learned in Honors Algebra I. Emphasis will be placed on preparation for study of higher mathematics/abstract thinking skills, the function concepts, and the algebraic solution of problems of various content areas. This course is necessary preparation for pre-calculus. Topics include real and complex number systems, rational expressions, matrices, quadratic roots, linear and quadratic equations, inequalities, graph transformations, exponential functions, logarithmic functions, and roots of polynomials.

## Algebra II

1032

Grade: 10-12

**Prerequisite:** Algebra I and Geometry

**Credit: 1**

**Required** - This course is designed to develop strategies for solving non-routine problems and to give students an understanding of algebra by expanding concepts learned in Algebra I. Topics include the real number system, number theory, algebraic expressions and sentences, linear and quadratic equations, inequalities, operations with polynomials, relations and functions, graphing equalities and inequalities, and solving systems of equations.

## Honors Geometry

0935

Grade: 9-11

**Prerequisite:** Grade of C or higher in Honors Algebra I

**Credit: 1**

**REQUIRED for Honors Diploma** - In order to have an understanding of and an appreciation for geometric concepts, emphasis is placed on discovery, proof and application of geometric relationships and principles. Topics include construction, inductive and deductive reasoning, points, lines, planes, angles, triangles, planar figures, perimeter and area, surface area and volume, similarity and congruence, and circles. **This course will fulfill the state geometry requirement.**

## Geometry

1034

Grade: 10-12

**Prerequisite:** Algebra I

**Credit: 1**

**REQUIRED for Standard Diploma** - This class is designed to give an understanding of and an appreciation for geometric concepts found in everyday life. Topics include construction, inductive and deductive reasoning, points, lines, planes, angles, triangles, planar figures, perimeter and area, surface area and volume, similarity and congruence, and circles.

**Pre-Calculus****1033****Grade: 10-12****Prerequisite: Grade of C or higher in Honors Alg II and Honors Geo Credit: 1**

**REQUIRED for Honors Diploma** - This course is intended for students who plan to take a calculus course in high school or college. It includes topics such as functions, their inverse, graphs and their applications including polynomials, rational, exponential, logarithmic, circular, trigonometric and absolute values and natural numbers. Appropriate use of calculators will be integrated through the course.

**AP Calculus****1130****Grade: 11-12****Prerequisite: Grade of C or higher in Honors Geometry and PreCal Credit: 1**

**REQUIRED for Honors Diploma** - This course is designed for students who have mastered the content in the honors curriculum. It follows the curriculum established by the College Board. Topics include properties of functions, limits, derivatives, applications of derivatives, anti-derivatives, techniques of integration, and the application of the integral. Students wishing to receive AP credit on transcripts will be required to take the AP test offered in the spring. **To earn AP status on transcripts, students must take the AP test.**

**College Algebra****1031****Grade: 11-12****Prerequisite: Math ACT score of 20 or higher****Credit:1**

**Elective** - College Algebra and Functions selected topics in algebra and analytic geometry. Develops manipulative skills and concepts required for further study in mathematics. Includes linear, quadratic, polynomial, rational, exponential, logarithmic, and piecewise functions; systems of equations and inequalities; and introduction to analytic geometry. **College credit for MT 150 may be obtained through dual enrollment.**

## SCIENCE

<b>Earth/Space Science</b>	<b>0952</b>	<b>Grade: 9</b>
<b>Prerequisite: None</b>		<b>Credit: 1</b>
<b>REQUIRED for Standard Diploma and Honors Diploma</b> - This is a survey course of the formation of earth, its cycles and features, the solar system and celestial bodies, with an emphasis on the scientific method of inquiry and laboratory experiences.		
<b>Biology</b>	<b>1052</b>	<b>Grade: 10</b>
<b>Prerequisite: Earth/Space Science</b>		<b>Credit: 1</b>
<b>REQUIRED for Standard Diploma and Honors Diploma</b> - Study includes cellular structure, function and processes, chemical organization, genetics, ecology, and a survey of animals, including dissections. Lab work is an important part of the course, with individual and group experiments and reports of data collected.		
<b>Anatomy and Physiology</b>	<b>1053</b>	<b>Grade: 11-12</b>
<b>Prerequisite: Biology, Chemistry I or current enrollment</b>		<b>Credit: 1</b>
<b>Elective</b> - This class introduces fundamental principles of the human body. It offers a concise, informative study for health, nursing and other allied health programs. It also includes group discussion, lecture and laboratory. This class is geared for traditional students who want to know additional or practical applications of biology.		
<b>Introduction to Chemistry and Physics</b>	<b>1152</b>	<b>Grade: 11</b>
<b>Prerequisite: Earth/Space Science and Biology</b>		<b>Credit: 1</b>
<b>REQUIRED for Standard Diploma</b> - This course introduces the basic principles of chemistry and physics. This includes measurement and lab techniques, periodic table, writing and balancing equations. Also included are basic principles of physics such as laws of motion, force and energy.		
<b>Chemistry</b>	<b>1153</b>	<b>Grade: 11</b>
<b>Prerequisite: Earth/Space Science and Biology</b>		<b>Credit: 1</b>
<b>REQUIRED for Honors Diploma</b> - This is a general chemistry course that deals with basic concepts of chemistry such as atomic structure, molecular weights, chemical formulas, periodic trends and an introduction to the mole and molar concepts and mathematics.		
<b>AP Chemistry</b>	<b>1150</b>	<b>Grade: 11-12</b>
<b>Prerequisite: Chemistry I and a grade of 90 percent or higher in Biology</b>		<b>Credit: 1</b>
<b>Elective</b> - This is a college-prep class that deals with the deeper concepts of chemistry such as quantum physics, stoichiometry, gas laws, equilibrium, acid/base reactions, kinetics and thermochemistry. <b>To earn AP status on transcripts, students must take the AP test.</b>		
<b>AP Biology</b>	<b>1151</b>	<b>Grade: 11-12</b>
<b>Prerequisite: Grade of 90 percent or higher in Chemistry I, Algebra II and Biology</b>		<b>Credit: 1</b>
<b>Elective</b> - This is a strenuous course of study in cellular processes, ecology, genetics, evolution and a survey of the animal kingdom. There are 12 required AP biology labs. Anatomy and physiology also are a major focus, with an intensive dissection laboratory. Students will be required to take the AP biology test on the national testing date for possible college credit. Summer homework is mandatory. <b>To earn AP status on transcripts, students must take the AP test.</b>		

# SOCIAL STUDIES

## **American Government/Economics**

**0961**

**Grade: 9**

**Prerequisite: None**

**Credit: 1**

**REQUIRED for both Standard and Honors diploma** - This freshman-level course is divided into a half-section of government and a half-section of economics. The government portion includes the fundamental concepts and structures of federal, state and local governments, with a focus on the U.S. Constitution and amendments. The economics portion covers the U.S. economic system, with practical experience in areas of the stock market, investing and taxes.

## **Honors World Civilization and Geography**

**1062**

**Grade: 10**

**Prerequisite: American Government/Economics**

**Credit: 1**

**REQUIRED for Honors Diploma** - This sophomore-level survey course begins with the Renaissance and includes an exploration of historical patterns, themes and concepts. Geographical content of civilizations is emphasized. This course studies the social, political and economic changes that have created the modern world. It offers a higher degree of difficulty than standard World Civilization and Geography.

## **World Civilization and Geography**

**1063**

**Grade: 10**

**Prerequisite: American Government/Economics**

**Credit: 1**

**REQUIRED for Standard Diploma** - This sophomore-level survey course begins with the Renaissance and includes an exploration of historical patterns, themes and concepts. Geographical content of civilizations is emphasized. This course studies the social, political and economic changes that have created the modern world.

## **Geography**

**1064**

**Grade: 10-11**

**Prerequisite: None**

**Credit: 1**

**Elective** - Students will use geography to learn about their surroundings, visualize locations, recognize physical and human characteristics of regions, understand individuals' role in the environment, and discover factors that influence human movement and settlement.

## **AP U.S. History**

**1160**

**Grade: 12**

**Prerequisite: Honors U.S. History and Honors English; students must**

**Credit: 1**

**earn a grade of B or higher in Honors US History and Honors English.**

**REQUIRED for Honors Diploma** - AP U.S. History is taught as a college class with extensive reading required. Ability to write well is critical. The purpose of this AP class is not only to prepare students for the academic environment of college, but also to allow students to take the AP U.S. history test that would allow college credit. A summer assignment may be required. **To earn AP status on transcripts, students must take the AP test.**

## **Honors U.S. History**

**1161**

**Grade: 11**

**Prerequisite: Honors World Civilization and Geography**

**Credit: 1**

**REQUIRED for Honors Diploma** - This junior-level course is designed as an in-depth study of U.S. history beginning with Reconstruction and continuing into modern times. This course provides students with the opportunity to understand how the current domestic and international status of the United States has developed. It offers a higher degree of difficulty than standard U.S. History.

**U.S. History**

**1165**

**Grade: 11**

**Prerequisite: World Civilization and Geography**

**Credit: 1**

**REQUIRED for Standard Diploma** - This junior-level course is designed as an in-depth study of U.S. history beginning with Reconstruction and continuing into modern times. This course provides students with the opportunity to understand how the current domestic and international status of the United States has developed.

**AP World Civilization**

**1260**

**Grade: 11-12**

**Prerequisite: Honors World Civilization and Geography and Honors English with a grade of B or higher**

**Credit: 1**

**Elective** - This class is for the student who wants the challenge of learning about world history through extensive reading, research, writing and culminating learning events. The course examines all of the world civilizations and requires work above grade level for successful completion. It follows the AP curriculum for world civilization. A summer assignment is required. **To earn AP status on transcripts, students must take the AP test.**

# AGRISCIENCE

## **Principles of Agriscience and Technology      0981**

**Grade: 9-10**

**Prerequisite: None**

**Credit: 1**

**Elective** - Agriscience introduces the student to a wide range of career areas in agriculture, including animal and plant science, wildlife resources, aquaculture, agribusiness and computer applications. Also included is an introduction to the National Future Farmers of America organization, experience programs and how they apply. Each student will develop an experience program suited to his/her situation. FFA membership is strongly encouraged.

## **Aquaculture      1082**

**Grade: 10-12**

**Prerequisite: None**

**Credit: 1**

**Elective** - This course provides the fundamentals of aquatic plant and animal biology, anatomy/morphology and physiology in aquaculture, and the unique properties of water for aquaculture. Instruction also includes fish and aquatic crop production, management and marketing principles. Content will be enhanced with appropriate applied scientific laboratory activities and computer applications. FFA membership is strongly encouraged.

## **Environmental Technology      1089**

**Grade: 10-12**

**Prerequisite: None**

**Credit: 1**

**Elective** - This course is a scientific study of environmental technology. It is designed to develop an awareness of environmental concerns related to air, water, soil, land use and waste management, and their interrelationship with the biological ecosystem. Soil formation, conservation and evaluation material also will be included. Content will be enhanced with appropriate computer applications, scientific laboratory activities, field experimentation and community development projects. FFA membership is strongly encouraged.

## **Wildlife Resources      1088**

**Grade: 10-12**

**Prerequisite: None**

**Credit: 1**

**Elective** - This class develops an awareness of wildlife industry resources. The course includes a study of ecology and ecosystems, wildlife habitat, population dynamics, management techniques that deal with wildlife in all areas, and the regulations that affect the wildlife industry. Content may be enhanced with appropriate applied scientific laboratory activities and computer applications. FFA membership is strongly encouraged.

## **Plant and Land Science      1081**

**Grade: 10-12**

**Prerequisite: None**

**Credit: 1**

**Elective** - This class will provide you with the basics of land management, plant science, and athletic turf management. Emphasis will be placed on how these interrelate and how students will be able to use the knowledge and skills taught in this class later in life. Content will be enhanced with appropriate applied scientific laboratory activities and computer applications. FFA membership is strongly encouraged.

## **Small Animal Tech      1087**

**Grade: 10-12**

**Prerequisite: None**

**Credit: 1**

**Elective** - This course develops scientific knowledge, management practices, and marketing strategies in small and specialty animal technology. The curriculum includes identification, anatomy, physiology, nutrition, health, selection and care of small animals such as dogs, cats, rabbits, companion birds, tropical fish, and fur bearers. Content will be enhanced with appropriate applied scientific laboratory activities and computer applications. Leadership development will be provided through FFA. Each student will be expected to have a supervised agricultural experience program.

## AUTOMOTIVE

### **Introduction to Auto Collision**

**1094**

**Grade: 10-12**

**Prerequisite: None**

**Credit: 1**

**Elective** - The program provides training in auto body repair and auto body painting and trimming. Instruction includes the proper use of hand and power tools, and spray painting equipment. Shop math, science and theory related to the repair of automobiles also are included. The program prepares students for careers as an auto body repair service estimator, auto body repairer, auto body repairer helper and apprentice auto painter. **(Formerly known as Auto Body I.)**

### **Nonstructural Analysis, Repair and Lab**

**1193**

**Grade: 11-12**

**Prerequisite: Introduction to Auto Collision**

**Credit: 1-4**

**Elective** - This program provides additional training in auto body repair and auto body painting and trimming. Instruction includes the proper use of hand and power tools and spray painting equipment. Shop math, science and theory related to the repair of automobiles also are included. The program prepares students for careers as an auto body repair service estimator, auto body repairer, auto body repairer helper, and auto painter. **(Formerly known as Auto Body II.)**

### **Painting, Refinishing and Lab**

**1199**

**Grade: 10-12**

**Prerequisite: None**

**Credit: 1**

**Elective** – This program provides additional training in auto body repair and auto body painting and trimming. Instruction includes the proper use of hand and power tools and spray painting equipment. Shop math, science and theory related to the repair of automobiles also are included. The program prepares students for careers as an auto body repair service estimator, auto body repairer, auto body repairer helper, and auto painter. **(Formerly known as Auto Body III.)**

## BUSINESS

### **Accounting and Finance Foundations**

**0973**

**Grade: 9-12**

**Prerequisite: None**

**Credit: 1**

**Elective - (Replaces Accounting I)** This course will provide an introduction to areas of both 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. Technical writing will be provided through IPAC business plan curriculum and exploration of case studies. Leadership development will be provided through Future Business Leaders of America.

### **Business Communications**

**1072**

**Grade: 11-12**

**Prerequisite: Computer and Technology Applications**

**Credit: 1**

**Elective -** This course is designed to provide students with business communication skills in oral, written and electronic presentations. Emphasis is on writing letters, preparing and presenting business reports, using the telephone in business, electronic transfer of information, using business information resources, listening and interpreting, and developing business messages. **This class is offered for dual credit with WKCTC (TEC200).**

### **Business Law**

**1075**

**Grade: 10-12**

**Prerequisite: None**

**Credit: 1**

**Elective -** This course develops an understanding of legal rights and responsibilities in personal and business law, with applications for everyday roles as consumers, citizens and workers. The student will have an understanding of the American legal system, courts, court procedures, criminal justice system, torts, the civil justice system, oral and written contracts, sale contracts and warranties, and consumer protection.

### **Computer and Technology Applications**

**1071**

**Grade: 9**

**Prerequisite: None**

**Credit: 1**

**REQUIRED -** This course is designed to provide students with an entry-level experience with practical applications through hands-on instruction. The students will be given a basic keyboarding applications unit at the beginning and continued throughout the course. The student will become familiar with the use of the computer as a tool for work and personal applications, computer-related careers and computer technology. Course content also will include understanding of hardware, software, operating systems and care and operations. Correct keyboarding techniques are applied. The practical approach to software applications includes introduction to word processing, graphing, spreadsheets, database management and DOS.

### **Advanced Computer and Technology Apps**

**1073**

**Grade: 10-12**

**Prerequisite: Computer and Technology Applications**

**Credit: 1**

**Elective -** This course is designed to provide students with an advanced-level experience with practical applications through hands-on instruction. Course content will include understanding of various hardware, software, operating systems, care and operations, administrative applications and employability skills. The software includes advanced business applications using word processing, presentation, spreadsheets, database management, desktop publishing and electronic communication software. Leadership development will be provided through FBLA. Upon completion of this course, a student will be ready to take the core level tests for MOS certification, the IC3 Exam, and/or the Administrative Support Skill Standards Certificate. **This class is offered for dual credit with WKCTC (OST105).**

**Electronic Office** **972** **Grade: 11-12**  
**Prerequisite: Computer and Technology Applications** **Credit: 1**  
**Elective** - This course refines the skills established in previous business classes using the most up-to-date technology. Emphasis is on computer simulations that best prepare students for the 21<sup>st</sup> Century. A computerized workstation with industry-standard software is required for each student. The course content includes advanced computer applications, database management, spreadsheet applications, employability skills, communication skills, ethical considerations, and environment management. Leadership development will be provided through FBLA.

**Entrepreneurship** **906** **Grade: 11-12**  
**Application Process** **Credit: 1**  
**Course Description:** This course is designed to provide students the skills needed to effectively organize, develop, create and manage their own business. This course is based on the business and marketing core that includes communication skills, economics, financial analysis, operations, promotion and selling. The culminating project of the course is the development of a comprehensive business plan. Cooperative education or shadowing experiences may be used to enhance course instruction. Students will study economic functions at work in the marketplace, marketing functions including purchasing, pricing and distribution functions. Communication and marketing skills learned will improve and increase the chance of transition into the world of work. Leadership development will be provided through FBLA.

**Financial Accounting** **1078** **Grade: 10-12**  
**Prerequisite: Accounting and Finance Foundations** **Credit: 1**  
**Elective - (Replaces Accounting II)** 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 will be provided through FBLA.

**Multimedia Publishing** **1074** **Grade: 10-12**  
**Prerequisite: Computer and Technology Applications** **Credit: 1**  
**Elective** - 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, tri-fold brochures, manuscripts, reports, bi-fold 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. **This class is offered for dual credit with WKCTC (VCM100).**

**Advanced Multimedia Publishing** **1077** **Grade: 11-12**  
**Prerequisite: Multimedia I and instructor's permission** **Credit: 1**  
**Elective** - This is a hands-on class that will prepare the school's morning announcements for television production. The students will create documentaries and public service announcements. They also will learn camera use and correct placement of lighting.

**Multimedia III** **1070** **Grade: 11-12**  
**Prerequisite: Advanced Multimedia Publishing** **Credit: 1**  
This course is a continuation of Advanced Multimedia Publishing for advanced students.

**Math for Business and Industry** **1171** **Grade: 12**  
**Prerequisite: Algebra I** **Credit: 1**  
**Elective** - This class is for students with computation skills and some fundamental algebraic and geometric concepts. It applies concepts to non-routine problems using modeling and manipulative methods. Consumer, career, sports and industrial mathematics concepts will be developed through problem-solving. It will provide skills for life encountered outside the classroom. Other concepts covered will include collecting and interpreting data, solving equations, estimating and testing. **This class is offered for dual credit with WKCTC (OST213).**

**Principles of Hospitality/Tourism** **903** **Grade: 10-12**  
**Credit: 1**  
**Course Description:** This course is designed for students interested in marketing careers in the hospitality industry. The instruction includes career awareness in the areas of recreation, travel/tourism, hotel/motel, and restaurant. This course is based on the business and marketing core that includes communication skills, economics, operations, promotion, selling, and product/service management. Leadership development will be provided through FBLA activities and competitive events.

**Promotional Applications/Media** **984** **Grades: 11-12**  
**Prerequisite: Computer Applications, MultiMedia I, Sports and** **Credit: 1**  
**Event Marketing**  
**Elective** - This course is designed to provide students with hands-on applications for running the high school's sports broadcasting and promotions efforts. Students will apply basic fundamentals of advertising and broadcasting using digital and print media. This course is based on the business and marketing core that includes communication skills, economics, financial analysis, product/service management and promotion.

**Sports and Event Marketing** **983** **Grade: 10-12**  
**Prerequisite: Computer and Technology Applications** **Credit: 1**  
**Elective** - This course is designed to develop a thorough understanding of the marketing concepts and theories that apply to sports and events. This course is based on the business and marketing core that includes communication skills, distribution, marketing-information management, human resource management, and the economic impact and considerations involved in the sports and event marketing industries.

**Travel and Tourism Marketing** **1069** **Grade: 10-12**  
**Credit: 1**  
**Course Description:** This course introduces the student to the travel and tourism industry. This course is based on the Business and Marketing Core that includes communication skills, economics, human resource management, promotion, marketing-information management, and selling. Instruction includes domestic and international travel, sales techniques, transportation methods (roads, water, air and rail) food and beverage marketing, and destination marketing. Leadership development will be provided through FBLA.

# CARPENTRY

**Intro to Construction Carpentry and Lab 1091**

**Grade: 9-12**

**Prerequisite: None**

**Credit: 1**

**Elective - Carpentry I** - This course provides the skills, related knowledge and social traits expected of a craftsman in his/her trade. Introduction as well as shop experiences are provided for both rough and finish carpentry. Shop safety, correct use of hand, power, and shop tools will be addressed. **This class is offered for dual credit with WKCTC (CAR126 and CAR127).**

**Floor and Wall Framing and Lab**

**1195**

**Grade: 10-12**

**Prerequisite: Intro to Carpentry**

**Credit: 1 - 4**

**Elective - Carpentry II** - Flooring, framing, layout and construction of floor frames, cutting and installing floor and wall framing members according to plans, and specifications will be addressed. This course will include basic electrical work and drywall finishing. **This class is offered for dual credit with WKCTC (CAR190 and CAR191).**

**Ceiling and Roof Framing and Lab**

**1196**

**Grade: 11-12**

**Prerequisite: Floor and Wall Framing**

**Credit: 1 - 4**

**Elective - Carpentry III** - Basic concepts of building, ceiling joists, rafters, roof decking and coverings will be studied. Blueprint reading for construction will be addressed. This class continues to refine techniques and skills taught in previous carpentry courses. Students will perfect skills associated with the exterior finishing of a house.

## FAMILY AND CONSUMER SCIENCE

### **Foods and Nutrition**

**1083**

**Grade: 10-12**

**Prerequisite: None**

**Credit: 1**

**Elective** - This course will focus on the skills necessary for food preparation and proper nutrition. Through learning experiences and laboratory preparation, the student will learn basic food preparation techniques; measuring; using and caring for equipment; buying, handling and storing foods; how to choose and use a recipe; and making good nutritional choices. The class also will help students learn about their nutritional needs, meal preparation, setting a table, dining etiquette, benefits of a good diet, and preparing foods with foreign influences. This class will be offered to seniors and juniors first. There is a class fee of \$30.

### **Parenting and Child/Human Development**

**1084**

**Grade: 9-12**

**Prerequisite: None**

**Credit: 1**

**Elective** - This course provides the skills needed in preparation for parenthood. It involves the study of human development, reproductive systems, hereditary traits, conception, abstinence, contraception/birth control, pregnancy, birth, care of the mother and baby, demands of child-rearing, discipline, and managing the responsibilities of parenting, as well as other changes in the family life cycle. This course is designed to cover all stages of the life cycle and the problems related to it, and to lead to understanding of type and stages of growth and development of the child through adolescence.

### **Relationships/Money Skills**

**1085**

**Grade: 9-12**

**Prerequisite: None**

**Credit: 1**

**Elective** - This course includes the study of current problems teens face in today's society as they get along with their peers, parents, adults and other people they know. This course addresses peer pressure, stress, substance abuse, communication, family crises, prevention of family violence, conflict resolution, and responsible sexual behavior, while emphasizing premarital abstinence. Included is the study of time management, organizational skills, resumes, work habits, problem-solving, money management, shopping skills and the study of family roles and responsibilities.

### **Culinary Skills**

**1092**

**Grade: 11-12**

**Pre-Requisite: Foods and Nutrition**

**Credit: 1**

**Elective** - Culinary Skills is a course designed to provide training for employment in hospitality providers in the area of food service. Career decisions and demands on family life are explored, as well as skills and concepts related to supportive services such as public relations, food and beverage operations, management techniques and entrepreneurship. Instruction will include laboratory and on-the-job experiences and leadership development. There is a class fee of \$30 to cover the cost of food prepared and consumed by the students.

### **FACS Life Skills**

**1080**

**Grade: 10**

**Prerequisite: None**

**Credit: 1**

**Elective** - Students will learn about consumerism and financial literacy and will focus on areas of life management skills that will help the student survive in everyday life. The class will study foods, nutrition, child/human development, parenting skills, consumer economics, relationships, clothing management and construction. There is a class fee of \$20 to cover the expense of food and sewing projects.

## HEALTH SCIENCE

<p><b>Intro to Health Science</b>  <b>Prerequisite: None</b>  <b>Elective</b> - This course introduces the student to the many occupational areas in the health field. It is designed to assist students in determining career opportunities in the health occupations. The course is exploratory and offers instruction in basic health-related skills. This class teaches basic emergency skills, i.e., certification in CPR, Safety and First Aid.</p>	<p><b>1000</b></p>	<p><b>Grade: 9-10</b>  <b>Credit: 1</b></p>
<p><b>Medical Assisting Class</b>  <b>Prerequisite: None</b>  This class is designed to assist the student in learning the allied health profession and to be able to work in a variety of health-care settings: medical offices, clinical- and ambulatory-care facilities. Students will learn the role of the assistant with a wide variety of skills in the clinical office, as well as the records and billing portions of the job.</p>	<p><b>1009</b></p>	<p><b>Grade: 10-12</b>  <b>Credit: 1</b></p>
<p><b>Advanced Sports Medicine</b>  <b>Prerequisite: Sports Medicine/PT</b>  The advanced Physical Therapy/Sports Medicine class will offer the ability to gain further knowledge of the treatment of athletes in a variety of sporting events. Students will be offered the opportunity earn clinical experience as a student athletic trainer on the football field in the role of training new students.</p>	<p><b>1010</b></p>	<p><b>Grade: 10-12</b>  <b>Credit: 1</b></p>
<p><b>Special Topics for Health Science</b>  <b>Prerequisite: By instructor permission ONLY</b>  <b>Elective</b> - This course will take the place of one of the student's fourth-year math classes at this high school. Students must maintain a class average of 60 percent to obtain high-school level credit and score at least 68 percent on an exit exam to obtain college-level credit for this course. This guideline follows most KCTCS requirements. The course is designed to focus, utilize and build on mathematical skills used in all health occupations. The math portion of the course will require students to use applied techniques, problem solving, and critical thinking to perform mathematical operation such as computations, ratio and proportion, weights and measurements and conversions. This course will allow students to earn two college credits at Ivy Tech and in the KCTCS system.</p>	<p><b>1012</b></p>	<p><b>Grade: 11-12</b>  <b>Credit: 1</b></p>
<p><b>Physical Therapy Tech/Sports Medicine</b>  <b>Prerequisite: Health Science I, instructor's permission</b>  <b>Elective</b> - This course provides an introduction to physical, occupational and speech therapy. Students will learn the role of the physical therapy tech within the health care team. Students will have classroom and clinical experiences at local facilities.</p>	<p><b>1112</b></p>	<p><b>Grade: 11-12</b>  <b>Credit: 1</b></p>
<p><b>Pharmacy Technician</b>  <b>Prerequisite: Health Science I, instructor's permission</b>  <b>Elective</b> - This course provides an introduction to retail and hospital pharmacy settings. Students will explore the pharmacy tech role within the health care team. A variety of medications, uses and side effects are explored. Students will have classroom and clinical experiences at local facilities.</p>	<p><b>1006</b></p>	<p><b>Grade: 11-12</b>  <b>Credit: 1</b></p>
<p><b>Advanced Nursing Assistant</b>  <b>Prerequisite: Medicaid Nurse Aid or current enrollment</b>  <b>Elective</b> - This course offers students the opportunity to expand nursing assistant knowledge and skills to an advanced level. Students will have classroom and clinical experience at a local nursing facility. Requirements to complete a college certificate program are MNA with certification,</p>	<p><b>1007</b></p>	<p><b>Grade: 11-12</b>  <b>Credit: 1</b></p>

business applications, business communications, and anatomy and physiology. **This class is offered for dual credit with WKCTC (NAA115).**

**Medicaid Nurse Aid**

**1008**

**Grade: 11-12**

**Prerequisite: Health Science I**

**Credit: 1**

**Elective** - This course offers students the opportunity to learn introductory health care skills. Students will have classroom and clinical experience at a local nursing facility. The Certified Nursing Assistant exam will be offered. **This class is offered for dual credit with WKCTC (MNA100).**

**Emergency Procedures**

**1108**

**Grade: 9-12**

**Prerequisite: None**

**Credit: 1**

**Elective** - This course focuses on potential emergency situations. It is designed to promote an understanding of standard precautions necessary for personal and professional health maintenance and infection control. Upon successful completion of the course, the student will have the opportunity for certification in First Aid and Cardiopulmonary Resuscitation for health care providers. **This class is offered for dual credit with WKCTC (CPR100, SFA100).**

**Medical Math**

**1009**

**Grade: 10-12**

**Prerequisite: None**

**Credit: 1**

**Elective** - Applied mathematics related to health care, such as metric measurements, conversions, ratio/proportion, etc. **This class is offered for dual credit with WKCTC (FSH100).**

**Health Science Career Major Certificates**

Students must have four courses per certificate area. Three courses are required; suggested electives are listed in far right column. Other electives are listed at the bottom of the chart.

Certificate Area	Ninth Grade	10 <sup>th</sup> Grade	11 <sup>th</sup> Grade	12 <sup>th</sup> Grade	Suggested Additional Courses
Nursing MNA	Computer Apps; Emerg Proc; Intro to HS	Intro to Health Science	Medicaid Nurse Aid; Advanced Nursing Assistant		Emergency Procedures; Medical Math; Health Care Co-op
Nursing ANA College Graduation	Computer Apps; Emerg Proc; Intro to HS	Intro to Health Science	Medicaid Nurse Aid; Advanced Nursing Assistant; Anatomy and Physiology	Business Communications; Advanced Computer Apps; IC3 Exam (Optional)	Emergency Procedures; Medical Math; Health Care Co-op
PT/Sports Medicine	Computer Apps; Emerg Proc; Intro to HS	Intro to Health Science	Advanced HCS/Practicum	Physical Therapy Technician/Sports Medicine	Anatomy and Physiology
Pharmacy Tech	Computer Apps; Emerg Proc; Intro to HS	Intro to Health Science	Advanced HCS/Practicum	Pharmacy Technician	Chemistry; Medical Math
Medical Assisting	Intro to HS (9 <sup>th</sup> or 10 <sup>th</sup> )	Intro to HS (9 <sup>th</sup> or 10 <sup>th</sup> )	Medical Assisting (10 <sup>th</sup> , 11 <sup>th</sup> , or 12 <sup>th</sup> )	Medical Coding	

Electives available, 9-12<sup>th</sup> grades: Emergency Procedures, Anatomy and Physiology, Medical Math, Food and Nutrition, Business Communications, Computer Applications and Technology, Advanced Computer Applications, Health Care Co-op

# Welding

**Cutting Processes and Lab****1183****Grade: 9-12****Prerequisite: None****Credit: 1**

**Elective - Welding I** This course provides specialized classroom instruction and practical shop experience to prepare students for employment as welding technicians. The course emphasizes safe and efficient work practices, and basic occupational and employability skills. **This class is offered for dual credit with WKCTC (WLD110 and WLD111).**

**Basic Welding and Lab****1188****Grade: 10-12****Prerequisite: Cutting Processes****Credit: 1**

**Elective - Welding II** This is a continuation of Cutting Processes, teaching common cutting processes used in industry, theory, setup, operation and related safety. The course focuses on applied cutting, welding, and shop safety procedures, applied principles of oxy-fuel and plasma arc cutting processes, and applied principles of SMAW, GMAW, and GTAW welding processes. **This class is offered for dual credit with WKCTC (WLD150 and WLD151).**

**Advanced Welding and Lab****1180****Grade: 10-12****Prerequisite: Basic Welding and Lab****Credit: 1**

**Elective - Welding III** This is a continuation of Basic Welding, teaching advanced cutting processes used in industry, theory, setup, operation and related safety. The course focuses on applied cutting, welding and shop safety procedures, applied principles of oxy-fuel and plasma arc cutting processes, and applied principles of SMAW, GMAW, and GTAW welding processes. **This class is offered for dual credit with WKCTC (WLD130 and WLD131).**

**Certification Welding and Lab****1107****Grade: 11-12****Prerequisite: Advanced Welding and Lab****Credit: 1**

**Elective - Welding IV** This course is designed to provide the student with knowledge to achieve certification and AWS national accreditation. It compiles the knowledge of the Basic and Advanced Welding and Cutting Processes classes, and also reinforces safety and OSHA requirements. **This class is offered for dual credit with WKCTC (WLD220 and WLD221).**

## CO-OP CLASSES

**Agriscience Co-op** 1185 **Grade: 11-12**

**Pre-requisite: Completed Basic Agriscience and one other** **Credit: 1**

**Agriscience class; current enrollment in an agriculture class; must meet co-op guidelines**

**Elective** - This course provides cooperative work experience for career/technical students at the 11<sup>th</sup>- and 12<sup>th</sup>-grade level. It focuses on developing and demonstrating work-related competencies in the classroom and the work force. Students must have an attendance rate of 96 percent to participate.

**Business Co-op** 1175 **Grade: 11-12**

**Pre-requisite: Two completed business classes and current** **Credit: 1**

**enrollment in business class; must meet co-op guidelines**

**Elective** - This course provides cooperative work experience for career/technical students at the 11<sup>th</sup>- and 12<sup>th</sup>-grade level. It focuses on developing and demonstrating work-related competencies in the classroom and the work force. Students must have an attendance rate of 96 percent to participate.

**Family/Consumer Sciences Co-op** 1178 **Grade 11-12**

**Prerequisite: Two completed FACS classes and current** **Credit: 1**

**enrollment in FACS class; must meet co-op guidelines**

**Elective** - This course provides cooperative work experience for career/technical students at the 11<sup>th</sup>- and 12<sup>th</sup>-grade levels. It focuses on developing and demonstrating work-related competencies in the classroom and the work force. Students must have an attendance rate of 96 percent to participate.

**Health Science Co-op** 1103 **Grade: 11-12**

**Pre-requisite: Two completed health science classes and current** **Credit: 1**

**enrollment in health science class; must meet co-op guidelines**

**Elective** - This course provides cooperative work experience for career/technical students at the 11<sup>th</sup>- and 12<sup>th</sup>-grade level. It focuses on developing and demonstrating work-related competencies in the classroom and the work force. Students must have an attendance rate of 96 percent to participate.

**Industrial and Technical Education Co-op** 1194 **Grade: 11-12**

**Prerequisite: Auto Technology, Auto Body Repair, or** **Credit: 1**

**Carpentry; must meet co-op guidelines**

**Elective** - This course provides cooperative work experience for career/technical students at the 11<sup>th</sup>- and 12<sup>th</sup>-grade level. It focuses on developing and demonstrating work-related competencies in the classroom and the work force. Students must have an attendance rate of 96 percent to participate.

**Co-op Guidelines - To begin/continue participation in any co-op program the student must:**

- **Maintain a 96 percent attendance rate (appeals process is available). If first semester attendance rate drops below 96 percent, student will be removed from the class for the second semester.**
- **Have instructor's approval.**
- **Co-op in a cluster area.**
- **Attend a meeting prior to start of the school year.**
- **Provide written evidence of a job.**
- **Work regularly at that job at or before 3 p.m.**
- **NOT work for parents or guardians (appeals process is available).**
- **Be following a career major and taking at least one class in the career major area. Please refer to the career majors listed above each of the categories.**

	Standard Diploma		Honors Diploma		Commonwealth Diploma	
<b>Freshman</b>	902	English 9	901	Honors English 9	901	Honors English 9
	932	Algebra I (Course will take up two blocks)	931 935	Honors Algebra I or Honors Geometry	931 935	Honors Algebra I or Honors Geometry
	952	Earth/Space Science	952	Earth/Space Science	952	Earth/Space Science
	961	Government/Economics	961	Government/Economics	961	Government/Economics
	915	Health and PE	915	Health and PE	915	Health and PE
	1071	Computer Applications	1071	Computer Applications	1071	Computer Applications
					921	Spanish I

Check off course work that you have completed. Blank boxes are for your elective options.

Honors and AP courses are not limited to specific diploma levels. For example, you may take Honors or AP courses even if you choose the Standard Diploma track.

☞ Spanish I & II may be taken at anytime during high school

### Recommended Electives (not listed above)

- 973-Accounting and Finance Foundations
- 981-Agriscience
- 911-Art I
- 917-Band – Brass/Percussion
- 916-Band – Woodwinds
- 1183-Basic Welding 151-B
- 1108-Emergency Procedures
- 1080-FACS Life Skills
- 918-Freshman Choir
- 1094-Introduction to Auto Collision
- 1091-Introduction to Construction/Carpentry & Lab
- 1000-Introduction to Health Science
- 1009-Medical Assisting Class
- 1084-Parenting/Child Development
- 903-Principles of Hospitality/Tourism
- 1085-Relations/Money Skills

#### Commonwealth Diploma candidate must also...

- complete at least four required AP courses, test in at least three areas, and maintain a grade of C or higher (Required AP Course areas - English, math or science, foreign language and one elective)
- be enrolled for minimum of eight semesters

#### Math Lab Courses

According to state requirement, students who do not meet benchmark scores on KCCT, EXPLORE, PLAN, or ACT and/or earn a grade of D or F in their previous Math course, will be placed in a Math Lab course to assist them.

	Standard Diploma		Honors Diploma		Commonwealth Diploma	
<b>Sophomore</b>	1002	English 10	1001	Honors English 10	1001	Honors English 10
	1032	Algebra II or	933	Honors Algebra II or	933	Honors Algebra II or
	1034	Geometry	935	Honors Geometry	935	Honors Geometry
	1052	Biology	1052	Biology	1052	Biology
	1063	World Civilization & Geography	1062	Honors World Civilization & Geography	1062	Honors World Civilization & Geography
					1021	Spanish II

Check off course work that you have completed. Blank boxes are for your elective options.  
 Honors and AP courses are not limited to specific diploma levels. For example, you may take Honors or AP courses even if you choose the Standard Diploma track.  
 ↗ Spanish I & II may be taken at anytime during high school

### Recommended Electives (not listed above)

- 973-Accounting/Finance
- 1073-Adv Computer/Tech Applications
- 914-Adv PE
- 1053-Anatomy & Physiology
- 1082-Aquaculture
- 1011-Art II (Prerequisite – Art I)
- 917-Band – Brass/Percussion
- 918-Band – Woodwinds
- 1188-Basic Welding/Lab 152-B  
(Prerequisite – Basic Welding 151-B)
- 1075-Business Law
- 920-Concert Choir
- 972-Electronic Office
- 1108-Emergency Procedures
- 1089-Environmental Technology
- 1080-FACS Life Skills
- 1078-Financial Accounting
- 1195-Floors/Walls (Prerequisite – Introduction to Construction/Carpentry)
- 1000-Introduction to Health Science

- 1091-Introduction to Construction/Carpentry
- 1171-Math for Business and Industry
- 1009-Medical Assisting Class
- 1074-MultiMedia Publishing
- 1199-Painting and Refinishing I/Lab  
(Prerequisite – Introduction to Auto Collision)
- 1084-Parenting/Child Development
- 1109-Pharmacy Tech/Medical Math
- 1112-Physical Therapy Tech
- 1189-Plant and Land Science
- 903-Principles of Hospitality/Tourism
- 984-Promtional Applications and Media
- 1085-Relations/Money Skills
- 1087-Small Animal Technology
- 1021-Spanish II
- 983-Sports and Event Marketing
- 1088-Wildlife Resources

**Commonwealth Diploma candidate must also...**  
 -complete at least four required AP courses, test in at least three areas, and maintain a grade of C or higher (Required AP Course areas - English, math or science, foreign language and one elective)  
 -be enrolled for minimum of eight semesters

**Math Lab Courses**  
 According to state requirement, students who do not meet benchmark scores on KCCT, EXPLORE, PLAN, or ACT and/or earn a grade of D or F in their previous Math course, will be placed in a Math Lab course to assist them.

	Standard Diploma		Honors Diploma		Commonwealth Diploma	
<b>Junior</b>	1102	English 11	1101 1114	Honors English 11 or Junior AP English Literature	1101 1114	Honors English 11 or Junior AP English Literature
	1032 1034	Algebra II or Geometry	933 1033	Honors Algebra II or Pre-Calculus	933 1033	Honors Algebra II or Pre- Calculus
	1152 1153	ICP or Chemistry	1153	Chemistry	1153	Chemistry
	1165	US History	1161	Honors US History	1161	Honors US History
	1115	Arts and Humanities	1115	Arts and Humanities	1115	Arts and Humanities
			921	Spanish I	1121	Spanish III

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Spanish I & II may be taken at anytime during high school

### Recommended Electives (not listed above)

- 973-Accounting/Finance
- 1073-Adv Computer/Tech Applications
- 1077-Advanced MultiMedia Publishing
- 914-Adv PE
- 1007-Advanced Nursing Assistant (Must be taken with 1008-Medicaid Nurse Aide)
- 1180-Adv Welding I & II (Prerequisite Basic Welding 152-B)
- 1010-Adv Sports Medicine
- 1053-Anatomy & Physiology
- 1151-AP Biology
- 1260-AP World Civilization
- 1082-Aquaculture
- 1111-Art III (Prerequisite – Art II)
- 917-Band – Brass/Percussion
- 918-Band – Woodwinds
- 1188-Basic Welding/Lab 152-B (Prerequisite – Basic Welding 151-B)
- 1072-Business Communications
- 1075-Business Law
- 1196-Ceiling/Roof Framing (Prerequisite Floors and Walls)
- 920-Concert Choir
- 1197-Co-op I
- 1198-Co-op II
- 1092-Culinary Skills (Prerequisite Foods & Nutrition)
- 972-Electronic Office
- 1108-Emergency Procedures
- 906-Entrepreneurship (Application required)
- 1089-Environmental Technology
- 1080-FACS Life Skills

- 1078-Financial Accounting
- 1195-Floors/Walls (Prerequisite – Introduction to Construction/Carpentry)
- 1083-Foods & Nutrition
- 1000-Introduction to Health Science
- 1091-Introduction to Construction/Carpentry
- 1105-Journalism-Beacon (Application required)
- 1106-Journalism-Yearbook (Application required)
- 1114-Junior AP English Literature
- 1171-Math for Business and Industry
- 1009-Medical Assisting Class
- 1008-Medicaid Nurse Aide (Must be taken with 1007-Advanced Nursing Assistant)
- 1074-MultiMedia Publishing
- 922-Music Theory
- 1193-Nonstructural Analysis/Repair
- 1199-Painting and Refinishing I/Lab (Prerequisite – Introduction to Auto Collision)
- 1084-Parenting/Child Development
- 1109-Pharmacy Tech/Medical Math
- 1112-Physical Therapy Tech
- 1189-Plant and Land Science
- 903-Principles of Hospitality/Tourism
- 984-Promtional Applications and Media
- 1085-Relations/Money Skills
- 1087-Small Animal Technology
- 1121-Spanish III
- 983-Sports and Event Marketing
- 1069-Travel and Tourism Marketing
- 1088-Wildlife Resources

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	Standard Diploma		Honors Diploma		Commonwealth Diploma	
Senior	1202	English 12	1200	AP English	1200	AP English
		Math	1033 1130 1031	Pre-Calculus or AP Cal or College Algebra	1033 1130 1031	Pre-Calculus or AP Calculus or College Algebra
			1150 1151 1053	AP Chemistry, AP Biology, or Anatomy and Physiology	1150 1151 1053	AP Chemistry or AP Biology or Anatomy and Physiology
			1260 1160	AP World Civilization or AP US History	1260 1160	AP World Civilization or AP US History
			1021	Spanish II	1220	AP Spanish

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Recommended Electives (not listed above)

- 973-Accounting/Finance
- 1073-Adv Computer/Tech Applications
- 1077-Advanced MultiMedia Publishing
- 914-Adv PE
- 1007-Advanced Nursing Assistant (Must be taken with 1008-Medicaid Nurse Aide)
- 1180-Adv Welding I & II (Prerequisite Basic Welding 152-B)
- 1010-Adv Sports Medicine
- 1053-Anatomy & Physiology
- 1151-AP Biology
- 1260-AP World Civilization
- 1082-Aquaculture
- 1211-Art IV (Prerequisite – Art III)
- 917-Band – Brass/Percussion
- 918-Band – Woodwinds
- 1188-Basic Welding/Lab 152-B (Prerequisite – Basic Welding 151-B)
- 1072-Business Communications
- 1075-Business Law
- 1196-Ceiling/Roof Framing (Prerequisite Floors and Walls)
- 1107-Certified Welding Lab
- 920-Concert Choir
- 1197-Co-op I
- 1198-Co-op II
- 1092-Culinary Skills (Prerequisite Foods and Nutrition)
- 972-Electronic Office
- 1108-Emergency Procedures
- 906-Entrepreneurship (Application required)
- 1089-Environmental Technology

- 1080-FACS Life Skills
- 1078-Financial Accounting
- 1195-Floors/Walls (Prerequisite – Introduction to Construction/Carpentry)
- 1083-Foods & Nutrition
- 1000-Introduction to Health Science
- 1105-Journalism-Beacon (Application required)
- 1106-Journalism-Yearbook (Application required)
- 1114-Junior AP English Literature
- 1171-Math for Business and Industry
- 1009-Medical Assisting Class
- 1008-Medicaid Nurse Aide (Must be taken with 1007-Advanced Nursing Assistant)
- 1074-MultiMedia Publishing
- 922-Music Theory
- 1193-Nonstructural Analysis/Repair
- 1199-Painting and Refinishing I/Lab (Prerequisite – Introduction to Auto Collision)
- 1084-Parenting/Child Development
- 1109-Pharmacy Tech/Medical Math
- 1112-Physical Therapy Tech
- 1189-Plant and Land Science
- 903-Principles of Hospitality/Tourism
- 984-Promtional Applications and Media
- 1085-Relations/Money Skills
- 1087-Small Animal Technology
- 983-Sports and Event Marketing
- 1069-Travel and Tourism Marketing
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