

Williamsburg Independent School District



High School Program of Studies 2023-24

Williamsburg Independent Schools
1000 N. Main Street
Williamsburg, KY 40769
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Williamsburg Independent Schools



Mission and Vision Statements

Our school district mission is framed around what we call our 4 Commitments. These four ideas guide all that we do and serve as the lenses through which we operate, allocate resources, and establish priorities. This can only be accomplished by working with our local stakeholders.

- School Safety
- College and Career Readiness
- Personalized Learning
- On Time Supports

The vision of WISD is to create an environment where all students graduate college and/or career ready, where students receive personalized, on time support when needed, where parents and families are active partners in the education of their children, and where students receive quality programming both co-curricular and extracurricular to make the student a well-rounded, balanced individual, all the while maintaining the school spirit and pride that defines what WISD is all about.

Williamsburg Independent Schools



TO OUR STUDENTS

The Kentucky Career

Guide published by the

Workforce Development states: “Your journey through high school will help you have a successful transition to adult life.” Throughout your high school years, you will make many important decisions. Two such decisions are: (1) to graduate from high school, and (2) to choose an appropriate career path that matches your interests and abilities. Ask your parents/guardians, other family members, teachers, school counselors, school administrators, and employers about careers that interest you. Personally choose a career path that seems best for you, and enroll in courses and work experiences in the career.

A SPECIAL MESSAGE FOR PARENTS

The “Kentucky Career Guide” states: “You are the single most powerful influence on your child’s career planning. Statistics show that high school students and graduates rank their parents above teachers and counselors as significant career-planning resources. Choosing a career is an important process in your child’s life, a process that requires your guidance and support. Your child’s decision to attend college, a vocational or proprietary school, enter military service, or enter the labor force directly after high school depends greatly on the information he or she receives. Keep in mind that no matter how much help and information you provide, a career choice is always a personal decision. If you help your child now, a good start toward a solid and exciting future is enhanced.”

ENROLLMENT REQUIREMENTS



General Requirements Prior to Enrollment in Williamsburg City Schools

1. 704 KAR 3:410/707 KAR 1:150. A copy of a legal Birth Certificate. KRS 158:032

Upon enrollment of a student for the first time in ANY elementary or secondary school, the school shall notify in writing the person enrolling the student that within (30) days the person shall provide either:

- (a) A certified copy of the students birth certificate, or
- (b) Other reliable proof of the students' identity and age, and an affidavit of the inability to produce a copy of the birth certificate.

*Students can enroll if a copy of the birth certificate application and a copy of the money order can be provided to the school.

*If a birth certificate is not produced within thirty (30) days a written notice is to be given to the parents advising them they have ten (10) days to submit the birth certificate, or they will be reported to the Missing Child Information Center and local law enforcement officials.

2. KRS 158:035/902 KAR 2:060 A Kentucky Certificate of Immunization showing that the student is up to date according to Kentucky immunization law, or a certificate from another state showing adequate immunization status. An out of state certificate must provide the following information:

- (a) Name of student;
- (b) Birthday of student;
- (c) Name of parent or guardian;
- (d) Address, including street, city state, zip code;
- (e) Type of vaccine;
- (f) Date that each dose of each vaccine was administered;
- (g) Certification that a child is current for immunization until a specified date, including a statement that the certificate shall not be valid after the specified date;
- (h) The signature of the physician, health department administrator, or his/her designee;
- (i) The date of the signature of the physician, health department administrator, or his/her designee. (Provisional Certificates can be accepted for a limited period of time.)

3. **Reference: KRS 214.036 Immunization exceptions:** (a) Medical exception with a doctors statement;

(b) Religious exception with sworn parent statement.

4. **704 KAR 4:020 Physical Examination**

(a) Students must have a physical examination within six (6) months prior to enrollment in pre-school or kindergarten and within one year prior to enrollment in the sixth (6th) grade.

(b) The medical examination shall be reported on forms prescribed by the Department of Education and entitled, "School Medical Examination Form". (See page 72 in the School Services Health Manual.)

(c) *Children transferring into the district must comply with the above requirements (See page 63 in the School Services Health Manual.)

7. **707 KAR 1:180, Section 10 Appointment of surrogate parent.**

The rights of a student shall be protected: if no parent can be identified, no parent can be located or the child is a ward of the state. (A ward of the state means that all parental rights have been terminated by a courts order). There may be cases in which a student is in foster care, but parental rights have not been terminated. (When a student is in special education, the parents would need to be invited to ARC meetings, and with their permission, the foster parents could also attend. If a child needs a surrogate: A. Give the completed form "Limited Power of Attorney" to person enrolling the student. Note: the "Limited Power of Attorney" must be notarized and turned in to the school prior to enrollment

REQUIREMENTS FOR CONFIDENTIALITY AND FAMILY EDUCATIONAL RIGHTS AND PRIVACY ACT (FERPA)

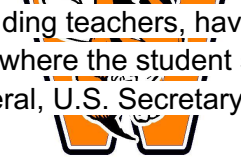
WHO CAN HAVE RIGHTS AND CAN GIVE CONSENT? A student who is 18 or older, or the parent of a student who is not yet eighteen (18), can exercise the right to give the required consent. **POLICY REQUIREMENTS:** A school district must adopt, make available copies, and annually notify students and parents of a policy of:

- a. Informing them of their rights.
- b. Not disclosing personally identifiable information from student records without their prior written consent.
- c. Maintaining the record of disclosures of personally identifiable information
- d. Providing them an opportunity to seek the correction of records.

RIGHT TO INSPECT RECORDS: A school district must permit a student or parent to inspect and obtain a copy of student records within a reasonable time (no more than 45 days after requested).

RIGHT TO AMEND RECORDS: A student or a parent, who believes that information contained in the records is inaccurate or misleading, or violates the privacy of other rights, may request the records be amended. If a school district decides to refuse, it must inform the student or parent and advise them of the right to a hearing.

RIGHT TO CONFIDENTIALITY: A school District must obtain the written consent of the student or parent before disclosing personally identifiable information from student records except:

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- a. To other school officials, including teachers, have legitimate educational interest.
 - b. To officials of another school where the student seeks to enroll.
 - c. To the U.S. Comptroller General, U.S. Secretary of Education, or state educational authorities.
 - d. In connection with a student's application for financial aid
 - e. To state and local officials, if authorized by a state statute.
 - f. To organizations conducting studies, developing tests, administering student aid programs, and improving instruction.
 - g. To accrediting organization or their function.
 - h. To parents of a dependent student, as defined in the Internal Revenue Code.
 - i. To comply with a court order or subpoena.
 - j. To appropriate parties in a health or safety emergency
 - k. "Directory information" can be disclosed from student records without student or parent consent, including the student's name, address, telephone number, date and place of birth, major field of study, participation in officially recognized activities and sports, weight and height or members of athletic teams, dates of attendance, degrees and awards received, the most recent previous educational agency attended, and other similar information. A school district must keep a record of each request and disclosure.

Williamsburg Independent School District

Graduation Progress Sheet

English (4 credits required)

- English I
- English II
- English III
- English IV or Dual Credit ENG I/II

MATH (4 credits required)

- Algebra I
- Geometry
- Algebra II
- Sr. Transition Math
- Pre-Calculus
- Dual Credit College Math/College Algebra

Science (3 credits required)

- Earth, Energy, Environment (E3)
- Biology
- Chemistry
- Ecology
- Dual Credit Biology
- Forensics

Social Studies (3 credits required)

- World Civilization
- Integrated Social Studies
- US History

Other requirements

- PE (½)/Health (½) (9th grade)
 - CPR and First Aid
- Visual/ Performing Arts
 - Arts and Humanities
 - Art, Band, Choir
- Civics Exam
- Financial Literacy program
- ILP completion
- Competency in Technology
- Workplace Skills



Williamsburg High School
Career Pathways
Course Sequencing

Pathway	1st Course	2nd Course	3rd Course	4th Course	Assessments	Clubs
Hospitality, Travel, and Tourism 52.1910.00	080716 Marketing Principles	080910 Principles of Hospitality	080911 Travel and Tourism Marketing	080310 Principles of Entrepreneurship	ASK	DECA
Management and Entrepreneurship 52.0701.00	080716 Marketing Principles	060170 Personal Finance	060411 Introduction to Management	080310 Principles of Entrepreneurship	ASK	DECA
Cyber Security 14.0902.00	110110 Computer Literacy ITF +	110222 Cyber Literacy I A+	110223 Cyber Literacy II Network +	110230 Cybersecurity Security +	A+ Network + Security + ITF+	TSA
Environmental Science 03.0101.00	030715 Principles of Agriculture Science	030711 Agriscience	030609 Environmental Science	010121 Agriculture Employability Skills	Ivec Ducks Unlimited Conservation and Management Certification	FFA
Food Science and Dietetics 51.3199.00	200113 FCS Essentials	200441 Foods and Nutrition	200442 Advanced Nutrition	200414 Introduction to Dietetics	ServSafe Manager	FCCLA
Media Arts 50.0401.00	480922 Virtual Design	480901 Intro Media Arts	480921 Digital Imaging	480920 Two-Dimensional Media Design	In Design Photoshop Illustrator	Skills USA
PLTW Biomedical 26.0102.00	170701 Principles of BioMed SCI	170702 Human Body Systems	170703 Medical Interventions	170704 Biomedical Innovations	NOCTI	HOSA

Course Catalog
English and Language Arts

English

Course #N230107 English I (1 credit) Grade 9

In this course students will implement reading strategies to comprehend fiction and nonfiction passages, including classics such as Shakespeare. Students produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience including daily grammar, On-Demand pieces monthly, and create writing pieces for publication and their cumulative writing portfolio. **Required for Graduation**

Course #N230110 English II (1 credit) Grade 10

In this course students will implement reading strategies to comprehend fiction and nonfiction passages. Students produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience including daily grammar, On-Demand pieces monthly, and create writing pieces for publication and their cumulative writing portfolio.

Required for Graduation

Course #N230113 English III (1 credit) Grade 11

In this course students will implement reading strategies to comprehend fiction and nonfiction passages, including American Literature. Students produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience including daily grammar, On-Demand pieces monthly, and create writing pieces for publication and their cumulative writing portfolio. **Required for Graduation**

Course #N230116 English IV (1 credit) Grade 12

This course offers continued refinement of pupils' abilities in language arts skills. Content includes appropriate experiences in oral and written composition and the historical, cultural, and aesthetic significance of English and/or world literature. Continuing to write for a variety of purposes (e.g. to express thought and feeling, to persuade) and audiences (e.g., self and others), students attain confidence in handling the stages of the writing process. Special attention to writing about literature is given in the pre-college curriculum. Language and mechanics concerns are dealt with in context of student writing. Completion of the writing portfolio at or above the Apprentice level is required for graduation. **Required for Graduation**

Foreign Language

Course #161108 Spanish 1 (1 credit) Grades 9-11

This course is designed to provide students with a basic knowledge of the Spanish language with an emphasis on these four skills: reading, listening, oral, and writing. The classroom is a special cultural setting of communication where language is the transmitter of meaningful messages.

Course #161109 Spanish 2 (1 credit) Grades 10-12

This course is designed to provide students with an intermediate knowledge of the Spanish language with an emphasis on these four skills: reading, listening, speaking, and writing. The classroom is a special cultural setting of communication. **Prerequisites Spanish I**

Math

Course #N270304 Algebra I (1 credit) Grade 9

This course is the beginning level for high school mathematics. Topics include foundations for algebra; solving equations; solving inequalities; an introduction to functions; linear functions; exponents and exponential functions; polynomials and factoring; and data analysis and probability. **Required for Graduation**

Course #N270309 Data and Measurement (1 credit) Grade 10

This course continues the core content for Algebra I and lays sufficient groundwork for learning advanced mathematics needed to be successful in Algebra II. Topics include basic operations and applications; probability, statistics, and data analysis; number concepts and properties; expressions, equations, and inequalities; graphical representations; properties of plane figures; measurement; solving linear and absolute value equations; systems of equations; quadratic functions and integers; polynomial and radical exponent and equations. **Pre-requisites: Algebra I. Co-requisites: Geometry. Note: First offering will be for 10th graders beginning with 2021-22 school year. This class will count towards graduation credits for math.**

Course #N270401 Geometry (1 credit) Grade 10

This course includes logical analysis as well as properties of geometric shapes. The goal of Geometry is to allow students to explore one, two, and three-dimensional figures through visualizations, constructions, measurements, and proofs. Topics include tool of geometry; parallel and perpendicular lines; triangles; similarity; polygons and quadrilaterals; right triangles and trigonometry; transformations; area and perimeter; surface area and volume; and circles. **Pre-requisites: Algebra I. Co-requisites: Algebra IA. Required for Graduation**

Course #N270311 Algebra II (1 credit) Grades 11-12

This course continues the core content for high school mathematics as well as lays sufficient groundwork for learning advanced mathematics. Topics include basic operations and applications; probability, statistics, and data analysis; number concepts and properties; expressions, equations, and inequalities; graphical representations; properties of plane figures; measurement; solving linear and absolute value equations; systems of equations; quadratic functions and integers; polynomial and radical exponent and equations; radical exponents and equations; sequences and series; statistics; and probability. **Pre-requisites: Algebra I, IA, Geometry**

Course #270309SR Senior Transition Math (1credit) Grade 12

This course is broken down into two sections. The first is designed for seniors who plan to go to college, technical school, or into the workforce who are in need of additional preparation in order to be successful in credit-bearing College Algebra. The second is designed to provide students with the knowledge and skills to manage one's financial resources effectively for lifetime financial security. Topics include economics, money in the economy, budgeting, credit, consumer rights, investments and retirement planning. This is a required course for any identified student. **Note: Class will phase out after 2021-2022 school year.**

Course #270501 Precalculus (1 credit) Grades 11- 12

This course involves the study of higher-level functions, emphasizing the understanding of functions and algebraic and graphic strategies needed for advanced problem solving. Characteristics and properties of polynomial, rational, square root, cubing, power, absolute value, reciprocal, and step functions, along with extensions of previously learned applications of real life data using linear, quadratic, exponential, and logarithmic functions is included. Conic sections will also be studied. Trigonometric basics, graphing, and data curve fitting of sinusoidal functions are introduced. This course emphasizes meaningful connections among the branches of mathematics and provides practice and improvement of previously acquired skill. **Prerequisites: Students must have an ACT score of 19 and completed Algebra II**

Science

Course #N304611 E3 (1 credit) Grade 9

Students develop a conceptual understanding of Earth/space science, as outlined in the Kentucky Academic Standards for Science, through the use of science and engineering practices. They experience Earth/space concepts such as energy in the Earth system, geochemical cycles, formation and ongoing changes of the Earth system, and formation and ongoing changes of the universe. Students will learn these core ideas within these topics through the use of the science and engineering practices and crosscutting concepts. The science and engineering practices are skills students will use as they investigate the natural world and develop solutions to problems. The crosscutting concepts are conceptual ways of thinking that cross the domains of science. **Required for Graduation**

Course #N302601 Biology I (1 credit) Grade 10

Students develop a conceptual understanding of biological sciences, as outlined in the Kentucky Academic Standards for Science. They experience concepts such as the cellular organization; molecular basis of heredity; biological change; interdependence of organisms; matter, energy and organization in living systems; and behavior of organisms. Students will learn these core ideas through the use of the science and engineering practices and crosscutting concepts. The science and engineering practices are the tools students will use, and skills they develop, as they investigate the natural world, and develop solutions to problems. The crosscutting concepts are conceptual ways of thinking that cross the domains of science. **Pre-requisites: E3. Required for Graduation**

Course #N304521 Chemistry I (1 credit) Grade 11

This course focuses on problem solving techniques; bonding; equilibrium; equations. Students develop a conceptual understanding of chemistry content, outlined in the Kentucky Academic Standards. Students will learn these core ideas within these topics through the use of the science and engineering practices and crosscutting concepts. The science and engineering practices are skills students will use as they investigate the natural world and develop solutions to problems. The crosscutting concepts are conceptual ways of thinking that cross the domains of science. **Pre-requisites: E3 and Biology. Required for Graduation**

Course # 304021 Physical Science (1 credit) Grade 11

Students develop a conceptual understanding of physical science, as outlined in the Kentucky Academic Standards for Science. They experience physical science concepts such as structure of atoms, structure and properties of matter, chemical reactions, motions and forces, conservation of energy and increase in disorder, and interactions of energy and matter. Students will learn these core ideas within these topics through the use of the science and engineering practices and crosscutting concepts. The science and engineering practices are skills students will use as they investigate the natural world and develop solutions to problems. The crosscutting concepts are conceptual

ways of thinking that cross the domains of science. **Prerequisite: E3 and Biology. Can be used as a graduation requirement.**

Course #302616 Introduction to Forensic Science/Criminalistics (1 credit) Grades 11-

12 Forensic science is the application of science to the law and encompasses various scientific disciplines as it applies to criminal investigation and laboratory analysis. This course will introduce various methodologies and applications used in the forensic context. Topics discussed include organic and inorganic chemical analyses of physical evidence, principles of serology and DNA analysis, fingerprint, hair, fiber, paint, glass, soil, impressions & tool mark analysis, toxicology, arson and microscopy. **Prerequisites: Biology 1/Algebra 1**

Social Studies

Course #459801 Integrated Social Studies (1 credit) Grade 9

Integrated Social Studies is an introductory survey of the inquiry practices and disciplinary strands civics, economics, geography and history of social studies. It is designed to give the student exposure to the inquiry practices and the disciplinary strands of social studies.

Course #450835 World History (1 credit) Grade 9

This World History course engages students in historical thinking focused on the Pre-Modern era to the present, from 1300 ? present. History is the study of past events, often including an explanation of their causes. Students need to understand their historical roots and those of others and how past events have shaped their world. In developing these insights, students must know what life was like in the past and how things change and develop over time. Reconstructing and interpreting historical events provides a needed perspective in addressing the past, the present and the future.

Course #451004 American Government (1 credit) Grade 10

American Government is the study of the United States, local, and other political systems; recruitment; roles and decision making; official duties; executive, legislative, and judicial government branches. **Prerequisite: World History**

Course # 450812 United States History (1 credit) Grade 11

This U. S. History course explores events, movements and ideas from 1877 to the present. History is the study of past events, often including an explanation of their causes. Students need to understand their historical roots and those of others and how past events have shaped their world. In developing these insights, students must know what life was like in the past and how things change and develop over time. Reconstructing and interpreting historical events provides a needed perspective in addressing the past, the present and the future. **Pre-requisites: Integrated Social Studies and World History.**

Physical Education

Course #340290 Integrated Health and Physical Education (1 credit) Grade 9

This course provides insight into healthy living, including the structures and functions of the human body, its systems, and the importance of physical fitness and sound nutrition. In addition, movement, sports and physical activity are used as central elements to foster active, healthy lifestyles and enhance the quality of life for the future. This is a required course for graduation.

Course #340219 Advanced Physical Fitness (1 credit) Grades 11-12

This course covers current, fundamental topics in health-related physical fitness while encouraging students to develop an individual level of physical fitness. This course uses a variety of games and sports to stress the significance of an active lifestyle to one's health and fitness, which can lead them to healthy lifestyle choices. **Pre-requisites: Integrated Health and Physical Education**

Visual and Performing Arts

Course #500111 Arts and Humanities (1 credit) Grade 11-12

This course will provide the setting and content to help understand the development of the arts and architecture during the ancient through medieval periods and from the 14th century to present time. Emphasis will be on the relationship of the arts to the cultures of Egypt, Western Asia, Greece, Rome, Medieval Europe, and the development of Western Art. **This is a required course of study for graduation. Other qualifying courses: Art, Choir, Drama, or Band.**

Course # 500712 General Art I (1 credit) Grades 9-12

This course is designed to expose the student to basic art principles and elements of design. Drawing and color techniques are introduced. Art History is taught through the text, films and educational programs. Art terms and processes and the relationship of art to society are introduced during the school year.

Course # 500712B Advanced Art 2/3(1 credit) Grades 10-12

This course is designed to better understand the techniques and Mediums of drawing, painting, and design. It is a continuation of building art principles and techniques. Students are encouraged to be more experimental and individual in their artwork. In the studies of art history, students are encouraged to become more aware of different artists and their contributions to society. The class presentation is changed and individualized to fit each student's needs as he or she advances through the years of high school. **Pre-requisites: Art 1**

Course #500913 Band (1 credit) Grades 9-12

Courses in General Band are designed to promote students' technique for playing Brass, Woodwind, and Percussion instruments and cover a variety of band literature styles (e.g., Concert, Marching, Orchestral, and Modern) primarily for performances and also include experiences in creating and responding to music. These courses teach students the appropriate care, handling, and maintenance of musical instruments. Band courses

may be offered on multiple skill levels to accommodate student proficiency. General Band courses may include marching activities for a portion of the year. This band attends KMEA Concert Band Adjudication in April.

Course #500920 Jazz Band (1 credit) Grades 11-12

Students study and perform a variety of contemporary or popular styles, such as traditional jazz, jazz improvisation and rock. These courses also cultivate students' technique on instruments appropriate to the style(s) performed -- brass, woodwind, string, percussion instruments, and/or electronic. These ensembles may include both instrumental and vocal music. Coursework provides students with opportunities for growth through rehearsal and performance, improvisation, or creating and performing their own compositions and also include experiences in responding to music. These courses teach students the appropriate care, handling, and maintenance of musical instruments. Courses are offered on multiple levels to accommodate proficiency. **Prerequisites Two years of High School Band**

Course #500925CC Concert Choir (1 credit) Grades 9-12

Concert Choir is a mixed (boys and girls) choir. This class is focused on introducing key choral concepts necessary for being a successful vocalist. These include sight-reading, proper vocal technique, breath support, and diction skills. Students will learn and apply solfege syllables to scales and melodies, and will learn to read and count rhythms. Students will be individually assessed on their level of vocal and sight reading ability at the beginning of the term, along with periodic solo evaluations to monitor student progress in these areas. Students will also be required to reflect on their progress and performances through written assignments and various projects. Students in this group are expected to attend all after school performances throughout the year.

Course #500926 Bella Voce (1 credit) Grades 10-12

Students refine vocal techniques and the ability to sing parts in small ensembles. Students develop vocal techniques focusing primarily on musical literature styles such as chamber, madrigal, traditional jazz, jazz improvisation, popular, rock, barber shop, gospel, show choir and cultural. These ensembles may include both instrumental and vocal music such as a small vocal ensemble with instrumental accompaniment. Course goals include the development of solo singing ability and emphasize one or several ensemble literature styles. These ensembles include experiences in creating and responding to music. Courses are offered on multiple levels to accommodate proficiency.

Career Pathway

Hospitality, Travel, and Tourism

Course #080717 Marketing Principles (1 credit) Grade 11-12

This course is designed to enhance marketing skills developed in the marketing prerequisite courses and to learn advanced marketing skills in such areas as advertising, customer service, supervision, and employee/employer relations for a wide range of marketing careers. This course is based on the business and marketing core that includes communication skills, emotional intelligence, economics, marketing, operations, promotion, marketing-information management and financial analysis. Students in this course may also wish to earn additional credit through marketing/retail on-the-job training utilizing the cooperative education method of instruction. Leadership development will be provided through DECA activities and competitive events. This is the capstone course for the Marketing Pathway.

Course #080910 Principles of Hospitality (1 credit) Grade 10-12

This course is designed for students interested in business and 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 and/or DECA.

Course#080911 Travel and Tourism Marketing (1 credit) Grade 10-12

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, food and beverage marketing, and destination marketing. Leadership development will be provided through FBLA and/or DECA.

Management and Entrepreneurship

Course #080717 Marketing Principles (1 credit) Grade 11-12

This course is designed to enhance marketing skills developed in the marketing prerequisite courses and to learn advanced marketing skills in such areas as advertising, customer service, supervision, and employee/employer relations for a wide range of marketing careers. This course is based on the business and marketing core that includes communication skills, emotional intelligence, economics, marketing, operations, promotion, marketing-information management and financial analysis. Students in this course may also wish to earn additional credit through marketing/retail on-the-job training utilizing the cooperative education method of instruction. Leadership development will be provided through DECA activities and competitive events. This is the capstone course for the Marketing Pathway.

Course# 060170 Personal Finance (1 credit) Grades 9-12

The goal of the Personal Finance course is to help students to become financially responsible, conscientious members of society. To that end, this course develops student understanding and skills in such areas as money management, budgeting, financial goal attainment, the wise use of credit, insurance, investments, and consumer rights and responsibilities. Throughout the course, students also examine contemporary, real-world

ethical dilemmas that individuals commonly encounter when managing their personal finances. Leadership development will be provided through FBLA and/or DECA.

Course#060411 Introduction to Management (1 credit) Grades 9-12

Introduction to Management expands student understanding of management. It exposes students to several types of management, including customer relationship management, human resources management, knowledge management, information management, project management, quality management, risk management, and strategic management. Business law, communication skills, economics, operations, and professional development are also stressed throughout the course. Current technology will be used to acquire information and to complete activities. Throughout the course, students are presented ethical dilemmas and problem-solving situations for which they must apply academic and critical-thinking skills. Leadership development will be provided through FBLA and/or DECA.

Course#080310 Principles of Entrepreneurship (1 credit) Grades 9-12

Principles of Entrepreneurship introduces students to a wide array of entrepreneurial concepts and skills, including the role of entrepreneurship in our economy, entrepreneurial discovery processes, ideation, and preliminary start-up venture planning. Students also develop an appreciation for marketing's pivotal role in the development and success of a new business. They become acquainted with channel management, pricing, product/service management, and promotion. Students conduct thorough market planning for their ventures: selecting target markets; conducting market, SWOT, and competitive analyses; forecasting sales; setting marketing goals and objectives; selecting marketing metrics; and setting a marketing budget. The capstone activity in the course is the development of detailed marketing plans for students' startup businesses. Throughout the course, students are presented ethical dilemmas and problem-solving situations for which they must apply academic and critical-thinking skills. Leadership development will be provided through FBLA and/or DECA.

Environmental Science

Course# 030715 Principles of Agriculture Science

This course provides instruction in the foundations of various segments of the agricultural industry. Agricultural career opportunities will be emphasized. Animal science, plant and land science, and agricultural mechanics skills will be the focus of the curriculum. The selection and planning of a supervised agricultural experience program and related record keeping will be presented. Leadership development will be provided through the National FFA Organization. Students will receive personal guidance and counseling with preparatory instructional program selection.

Course#030711 Agriscience

Agriscience introduces the scientific agricultural approach to animal science and selection, and plant and land science. Agricultural career opportunities will be emphasized in each class. Laboratory experiences relating to basic and current technology will be part of the program. Content may be enhanced by utilizing appropriate computer applications. Leadership development will be provided through the National FFA Organization. Each student will be expected to have a supervised agricultural experience program and keep appropriate records.

Course# 030609 Environmental Science

This course is an intermediate scientific study of environmental technology. It is designed to develop an awareness of environmental concerns related to 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 scientific laboratory activities, field experimentation, community development projects, and occupational development. Leadership development will be provided through the National FFA Organization. Each student will be expected to have an agricultural experience program.

Course# 010121 Agriculture Employability Skills

Agriculture Employability Skills provides opportunities to develop skills in: job searching, preparing resumes, writing letters of application, job interview, attitude, communicating effectively, human relations and accepting responsibilities. Leadership development will be provided through the National FFA Organization. Each student will be expected to have a supervised agricultural experience program.

Family and Consumer Science

Course# 200161 FACS Essentials Health (1 credit) Grades 9-10

Basic principles of individual and family well-being; wellness; nutrition; mental health problems; food related diseases; goals, decisions, time management and stress management; conflict resolution; body systems and structure; first aid, emergencies and safety; related careers.

Course#200441 Foods and Nutrition (1 credit) Grades 10-12

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, food safety, sanitation and careers in nutrition and food services.

Project Lead The Way: Biomedical

Course # 170701 Principles of Biomedical Science (1 credit) Grade 9-10

In the introductory course of the PLTW Biomedical Science program, students explore concepts of biology and medicine to determine factors that led to the death of a fictional person. While investigating the case, students examine autopsy reports, investigate medical history, and explore medical treatments that might have prolonged the person's life. The activities and projects introduce students to human physiology, basic biology,

medicine, and research processes while allowing them to design their own experiments to solve problems.

Course # 170702 Human Body Systems (1 credit) Grade 9-10

Students examine the interactions of human body systems as they explore identity, power, movement, protection, and homeostasis in the body. Exploring science in action, students build organs and tissues on a skeletal Maniken®; use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration; and take on the roles of biomedical professionals to solve real-world medical cases. **Prerequisites: Principles of Biomedical Science**

Course # 170703 Medical Interventions (1 credit) Grade 10-11

Students follow the life of a fictitious family as they investigate how to prevent, diagnose, and treat disease. Students explore how to detect and fight infection; screen and evaluate the code in human DNA; evaluate cancer treatment options; and prevail when the organs of the body begin to fail. Through real-world cases, students are exposed to a range of interventions related to immunology, surgery, genetics, pharmacology, medical devices, and diagnostics. **Prerequisites: Principles of Biomedical Science, Human Body Systems**

Course# 170704 Biomedical Innovation (1 credit) Grade 11-12

In the final course of the PLTW Biomedical Science sequence, students build on the knowledge and skills gained from previous courses to design innovative solutions for the most pressing health challenges of the 21st century. Students address topics ranging from public health and biomedical engineering to clinical medicine and physiology. They have the opportunity to work on an independent project with a mentor or advisor from a university, medical facility, or research institution. **Prerequisites: Completion of three courses in the Pathway**

Cyber Engineering

Course # 060112 Digital Literacy (1 credit) Grade 9-11

Students will use a computer and application software including word processing, presentations, database, spreadsheets, internet, and email to prepare elementary documents and reports. The impact of computers on society and ethical issues are presented. Leadership development will be provided through FBLA (Future Business Leaders of America) and/or DECA.

Course #110222 Cyber Engineering I (1 Credit) Grade 9-10

Cyber Literacy I is a hands-on course that builds a strong cyber foundation for high school students. The course introduces students to cyber by blending robotics, programming, electricity, and elements of liberal arts. Students learn about the opportunities, threats, responsibilities, and legal constraints associated with operative in cyberspace. Throughout the course, students learn the basics of electricity, programming, and networking as well as develop critical thinking skills. Cyber Literacy I lays a foundation for further exploration into STEM and cyber-related topics. Students spend at least 20 hours of programming and applying learned concepts through

programming. (Programming is defined, by the K-12 CS Framework, as the craft of analyzing problems and designing, writing, testing, and maintaining programs to solve them.)

Course #110223 Cyber Engineering II (1 Credit) Grade 10-12

Cyber Literacy II is a project-driven course that expands a student's understanding of cyberspace through two primary topics: systems engineering and liberal arts. The Cyber Literacy II course builds upon fundamental cyber skills developed in Cyber Literacy I and challenges students to go deeper into the world of cyberspace. Many aspects of science, engineering, technology, and mathematics are discussed through each of the projects. Students are challenged to create flowcharts with each build as well as read schematics instead of relying on wiring diagrams. Students spend at least 20 hours of programming and applying learned concepts through programming. (Programming is defined, by the K-12 CS Framework, as the craft of analyzing problems and designing, writing, testing, and maintaining programs to solve them.) Students spend at least 20 hours of programming and applying learned concepts through programming. (Programming is defined, by the K-12 CS Framework, as the craft of analyzing problems and designing, writing, testing, and maintaining programs to solve them.) **Prerequisite: Cyber Engineering I**

Course #110230 Cybersecurity (1 credit) Grade 11-12

Cybersecurity introduces the tools and concepts of cybersecurity and encourages students to create solutions that allow people to share computing resources while protecting privacy. This course raises students' knowledge of and commitment to ethical computing behavior. Students will learn components of cybersecurity and the role each plays in preventing, detecting and mitigating vulnerabilities and attacks. Students spend at least 20 hours of programming and applying learned concepts through programming. (Programming is defined, by the K-12 CS Framework, as the craft of analyzing problems and designing, writing, testing, and maintaining programs to solve them.) **Prerequisite: Cyber Engineering I, II Co-requisite: Security Fundamentals**

Media Arts

Course#480901 Introduction to Media Arts (1 credit) Grade 9-11

An introduction to and survey of the creative and conceptual aspects of designing media arts experiences and products, including techniques, genres and styles from various and combined mediums and forms, including moving image, sound, interactive, spatial and/or interactive design. Typical course topics include: aesthetic meaning, appreciation and analysis; composing, capturing, processing and programming of media arts products, experiences and communications; their transmission, distribution and marketing; as well as contextual, cultural, and historical aspects and considerations.

Course #480904 Virtual Design (1 credit) Grade 11-12

The creative and conceptual aspects of designing and producing simulative, virtual, 3D media arts experiences, products and services, including: environments, structures, objects, architecture and ecologies, virtual and augmented reality. Typical course topics

include: aesthetic meaning, appreciation and analysis; construction, development, processing, modeling, simulation and programming of experiences, structures, architecture and/or environments; their presentation, transmission, distribution and marketing, as well as contextual, cultural, and historical aspects and considerations.

Course #480921 Digital Imaging (1 credit) Grade 11-12

This course is an accomplished study and production of creative and conceptual aspects of designing and producing digital imagery, graphics, and photography. This includes techniques, genres, and styles from fine arts and commercial advertising, internet and multimedia, web design, and industrial and virtual design. Students use a computer as an electronic drawing tool to solve visual communications and illustration problems in designing authentic products. This course entails an accomplished use of current software for two-dimensional illustration, creating and integrating text, using color, and importing and exporting files. Typical course topics include aesthetic meaning and analysis of computer-generated works; composing, capturing, processing, and programming of imagery and graphical information; their transmission, distribution, and marketing; as well as contextual, cultural, and historical aspects and considerations. Participation in Kentucky Technology Student Association or SkillsUSA will greatly enhance instruction.

Course #480920 Two-Dimensional Media Design (1 credit) Grade 11-12

This course is a proficient study and production of creative and conceptual aspects of signing and producing digital imagery, graphics, and photography. This includes techniques, genres, and styles from fine arts and commercial advertising, internet and multimedia, web design, and industrial and virtual design. Students use a computer as an electronic drawing tool to solve visual communications and illustration problems in designing products. This course entails the use of current software for two-dimensional illustration, creating and integrating text, using color, and importing and exporting files. Participation in Kentucky Technology Student Association or SkillsUSA will greatly enhance instruction.

Cooperative Work Experience

Course #320106 Career Work Experience (2 credits) Grade 12

Career Work Experience is a course in career and technical education at the secondary level focusing on a cooperative work experience for students in 12th grade. This course includes a related class and cooperative work experience in business and industry. (Career and Technical Education (CTE) class.) Cooperative Education provides supervised on-the-job work experience related to the student's educational objectives. Work-based learning in the Career and Technical Education program may include shadowing, clinical experience, career major practicum, and/or cooperative education. These experiences should be related to the student's career major in the Career and Technical Program. Cooperative Education consists of in-school instruction combined with on-the-job work experience. **Acceptance Criteria for Career and Technical Cooperative Education**

1. Must have completed three classes in the one pathway area and be currently enrolled in the fourth course of that pathway.

2. Must fill out Cooperative Education application and permission to leave school waiver. (Will be distributed during registration of new school year). Application must be returned no later than first day of school.
3. Must have teacher recommendation from Career & Technical Program area teacher.
4. Shadowing/Volunteering is acceptable with agreement to submission of weekly timesheets signed by Supervisor.
5. Paid employment must be reflected via check stubs and or check in which must show the following; Dates of pay and hours worked. (Ex. Memo. Jan 1 – Jan 14 “20 hrs.”)

Miscellaneous Courses

Course #239141 Yearbook Production (1 credit) Grades 11 – 12

Topics in this course include yearbook production, publication, format, layout, photographs, and financial management. Students will develop communication skills, problem-solving techniques, cooperative learning, and interpersonal skills.

Course #904030 Student Technology Leadership Program Grades 11-12

This course is for students participating in The Student Technology Leadership Program (STLP) as a part of their course schedule.

Course #906010 Peer Tutoring Grade 12

This course is designed to train students in effective peer tutoring skills and provide experiences in peer tutoring.

