

CHRISTIAN COUNTY  
— PUBLIC SCHOOLS —  
High School  
Consolidated  
Course Guide  
2023-2024



Christian County High School



Gateway Academy  
to Innovation & Technology



Hopkinsville High School

Freshman Academy Edition

inspire

engage

succeed

A Community Committed to Phenomenal Schools

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# Diploma Programs

All District high school graduates are required to complete one (1) of two (2) diploma programs. They are as follows:

## Traditional Diploma

The Traditional Diploma meets the minimum State graduation requirements. A student must complete the minimum District graduation requirements to be granted a Traditional Diploma from any District high school.

**Minimum Graduation Requirements:** In support of the student development goals set out in [KRS 158.6451](#) and the Kentucky Academic Standards, students must complete a minimum number of credits including demonstrated performance-based competency in technology, and all other state and local requirements in order to graduate from a District high school. The number of credits for students to graduate will be determined by the following:

- Students entering high school in 2019 (class of 2023) must complete 24 credits
- Students entering high school in 2020 (class of 2024) must complete 25 credits
- Students entering high school in 2021(class of 2025) must complete 26 credits
- Students entering high school in 2022 and beyond must complete 27 credits

## Honors Diploma

A student must complete the following credits to be granted an Honors diploma from any District high school:

- Students entering high school in 2019 (class of 2023) must complete 27 credits
- Students entering high school in 2020 (class of 2024) must complete 28 credits
- Students entering high school in 2021(class of 2025) must complete 29 credits
- Students entering high school in 2022 and beyond must complete 30 credits

In addition, the student seeking the Honors Diploma must complete the following:

- Pre-college curriculum, which includes two (2) foreign language credits;
- A minimum of thirteen (13) courses considered as either honors, Advanced Placement (AP), or Dual Credit courses number 100 or above. Of the thirteen courses, three (3) must be Advanced Placement or Dual Credit with a college grade of "C" or above through an accredited Kentucky postsecondary institution
- English at the senior year must be either Advanced Placement or Dual Credit; and
- A minimum grade point average of 3.25.

An exception may be made to Honors Diploma requirements if a student meets all legal requirements for early graduation. This exception may be approved by the Superintendent/designee.

## Credit Required for Grade Placement

Credit requirements for grade placement for schools will operate under a graduated credit requirement scale:

- School year 2022-23: Sophomores (5), Juniors (11), and Seniors (17)
- School year 2023-24: Sophomores (6), Juniors (12), and Seniors (18)
- School year 2024-25 and beyond: Sophomores (7), Juniors (13), and Seniors (19)

# Graduation Requirements

## For Students Entering Grade Nine (9) On or After the First Day of the 2022-2023 Academic Year

English/Language Arts	Four (4) Credits total (English 1 and 2 plus two (2) credits aligned to the student's ILP)
Social Studies	Three (3) Credits total – (Two (2) plus one (1) credit aligned to the student's ILP)
Mathematics	Four (4) Credits total (Algebra 1 and Geometry plus two (2) credits aligned to the student's ILP)
Science	Three (3) Credits total – (Two (2) credits incorporating lab-based scientific investigation experiences plus one (1) credit aligned to the student's ILP)
Health	One-half (1/2) Credit
P.E.	One-half (1/2) Credit
Visual and Performing Arts	One (1) Credit or a standards-based specialized arts course based on the student's ILP
Academic and Career Interest Standards-based Learning Experiences	Eleven (11) Credits total (Including four (4) standards-based credits in an academic or career interest based on the student's ILP)
Technology	Demonstrated performance-based competency
Civics Exam	A minimum score of sixty percent (60%) on a civics test, made up of one hundred (100) questions
Individual Learning Plan (ILP)	Complete an ILP that focuses on career exploration and related postsecondary education and training needs
Financial Literacy	One (1) or more courses or programs that meet the financial literacy requirements pursuant to <a href="#">KRS 158.1411</a> .
Minimum Required Credits	27

# Required Course Options

## Language Arts

### General Information about English Classes

- All English classes will stress the writing process. Writing folders containing student work will be kept.

#### **230107 English 1 or 230107-H Honors English 1**

**1 Credit**

**Grade Level: 9**

**Prerequisite: None**

*\*Course Required for Graduation.* The course is designed to present a wide range of reading experiences with print and non-print texts for literary, informational, argumentative, analytical and practical purposes. Students use writing-to-learn and writing-to-demonstrate-learning strategies, as well as the writing process and criteria for effective writing, to comprehend and analyze complex texts and write in a variety of forms and for multiple audiences and purposes. Receptive and expressive skills are used to communicate information for a variety of authentic purposes, situations, and audiences. The integration of inquiry skills and technology with the other strands allows students to continue to discover and communicate ideas and information. *Honors English I is strongly recommended as preparation for other classes in our AP English program including Honors English 2.*

## Mathematics

#### **270304 Algebra 1 OR 270304-H Honors Algebra 1**

**1 Credit**

**Grade level: 9**

**Prerequisite: None**

*\*Course Required for Graduation.* This course is the study of high school Algebra 1 content aligned to the Kentucky Academic Standards for Algebra 1. Topics include but are not limited to the following: exponents; quantitative reasoning; linear, quadratic, and exponential expressions; written expressions; polynomials; first and second degree polynomials; linear, quadratic, or exponential equations; inequalities in one variable and linear equations in two variables; graphing; linear, quadratic or exponential functions and function notation; quantitative variables; and linear models. This course is designed to build a solid foundation necessary for future high school mathematics courses. This course contains modeling standards.

#### **270401 Geometry OR 270401-H Honors Geometry**

**1 Credit**

**Grade level: 9-10**

**Prerequisite: Algebra 1**

*\*Course Required for Graduation.* This course is the study of high school Geometry content aligned to the Kentucky Academic Standards for Geometry. Topics include but are not limited to the following: quantitative reasoning; transformations in the plane; congruence in terms of rigid motions; geometric theorems; geometric constructions; similarity transformations; trigonometric ratios; theorems about circles; the equation for a conic section; coordinates; volume formulas; two-dimensional and three-dimensional objects; and geometric concepts in modeling situations. This course contains modeling standards.

Course descriptions found at <https://kecs.education.ky.gov/public/coursesearch>

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# Required Course Options

## Science

### **304611 Earth Space Science or 304611-H Honors Earth Space Science**

**1 Credit**

**Grade level: 9**

**Prerequisite: None**

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.

## Social Studies

### **450709 Geography OR 450706-H Honors Geography**

**1 Credit**

**Grade level: 9**

**Prerequisite: None**

This Geography course studies the physical features of the earth and its atmosphere and human activity as it affects and is affected by these, including the distribution of populations and resources, land use and industries. Students gain geographical perspectives of the world by studying the earth and the interactions of people with places where they live, work and play. Knowledge of geography helps students to address the various cultural, economic, social and civic implications of life in Earth's many environments.

### **450712 AP Human Geography**

**1 Credit**

**Grade level: 9**

**Prerequisite: None**

This course is equivalent to an introductory college-level course in human geography. The course introduces students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of Earth's surface. Students employ spatial concepts and landscape analysis to examine socioeconomic organization and its environmental consequences. They also learn about the methods and tools geographers use in their research and applications. College credit is earned with a qualifying score on an AP exam. *\*Please note that there is an additional exam fee that is set by the College Board every year. The test fee will be anywhere from \$80-\$95 per AP exam.*

Course descriptions found at <https://kecs.education.ky.gov/public/coursesearch>

# Wellness

## **340133 Health Education I (To be paired with Physical Education I)**

**.50 Credit**

**Grade Level: 9**

**Prerequisite: None**

This course is designed to give students the opportunity to learn through a comprehensive sequentially planned Health Education program in accordance with the Kentucky Academic Standards for High School Health Education. The emphasis of this course is to teach students the ability to access, understand, appraise, apply and advocate for health information and services in order to maintain or enhance one's own health and the health of others. (NOTE: CPR Education is included in this course.)

## **340216 Physical Education I (To be paired with Health Education I)**

**.50 Credit**

**Grade Level: 9**

**Prerequisite: None**

This course is designed to give students the opportunity to learn through a comprehensive sequentially planned Physical Education program in accordance with the Kentucky Academic Standards for High School (9th-12th Grade) Physical Education. The emphasis of this course is to provide students with the skills, knowledge, attitude and confidence to be active for a lifetime. Students will have the opportunity to develop skills in fitness/conditioning activities, individual/team sports and recreational activities. Students will learn how lifetime physical activity contributes to optimal physical, mental, emotional and social health.

Course descriptions found at <https://kecs.education.ky.gov/public/coursesearch>

# Freshman Seminar

## **909999-FS Freshman Seminar**

**1 Credit**

**Grade Level: 9**

**Prerequisite: None**

This is a mandatory anchor course for all freshmen that supports the transition process to high school through content like time management skills, test taking skills, important resources for academic success, and other support services. Additionally, students will explore all career pathway options in order to select their future pathway courses. The emphasis of this course is to prepare students for a successful high school experience.



# Elective Options

**Students entering grade nine (9) on or after the first day of the 2022-2023 Academic Year may take two (2) credits of elective courses their 9th grade year. Please consider the following:**

- Students are encouraged to take at least one career pathway course each year of high school.
- Intervention courses are considered elective credits. They do not count as required Language Arts or Mathematic courses.
- Students seeking the Honors Diploma must complete the following:
  - Pre-college curriculum, which includes two (2) foreign language credits;
  - A minimum of thirteen (13) courses considered as either honors, Advanced Placement (AP), or Dual Credit courses number 100 or above. Of the thirteen courses, three (3) must be Advanced Placement or Dual Credit with a college grade of "C" or above through an accredited Kentucky postsecondary institution
  - English at the senior year must be either Advanced Placement or Dual Credit; and
  - A minimum grade point average of 3.25.
- Students interested in participating in the Fusion Work-Based Learning opportunities their senior year must have completed at least two career and technical education (CTE) courses in a single career pathway prior to their senior year. *Beginning with the Class of 2027, students must have three (3) transcribed credits within a single CTE pathway to participate in WBL.*

Freshmen have an opportunity to choose up to two (2) full credits of elective courses their first year of high school. Elective courses are selected from the following categories:

- Career and Technical Education (CTE) Pathway
- Visual & Performing Arts, such as art, band, choir, and theatre
- World Language
- Core Content Electives in language arts, science, and social studies

# Career & Technical Education

Our goal is to prepare students to make a successful transition to postsecondary education, work or military. Career and Technical Education (CTE) is an essential component to making our goal a reality. We offer over 30 CTE pathways to assist students in career exploration, career preparation, and leadership development. Through CTE pathways, students have the opportunity to participate in co-curricular organizations, project-based learning, and work-based learning. We encourage all students to earn an industry certification in their CTE pathway. *The following pages represent the CTE pathways that CCPS offers. Each pathway is lists the required courses, dual credit and industry certification opportunities.*

## Co-Curricular Opportunities

As a Career and Technical Education (CTE) Pathway student you have opportunities to expand the learning experience through Career and Technical Student Organizations (CTSO) such as Educators Rising, FBLA, FCCLA, FFA, HOSA, TSA, and SkillsUSA. In addition, other CTE related organizations include STLP and VEX Robotics. All students enrolled in a CTE Pathway are encouraged to participate in the pathway CTSO. Students have the opportunity to network with other career specific students and professionals across the state and nation as they attend and compete at the regional, state, and national conferences.



Are you interested in taking your education to the next level? Would you like to experience working in the career that you are preparing for? If so, then **FUSION** is for YOU!!

**FUSION** is Christian County Public Schools' (CCPS) work-based learning program. It encompasses all forms of work-based learning (WBL)--cooperative education (co-op), internships, and youth apprenticeships. **FUSION** is a partnership with the Christian County Chamber of Commerce and the Southwestern Kentucky Economic Development Council. *The mission of **FUSION** is to educate and train CCPS students for a lifelong career journey and create a sustainable workforce for Hopkinsville/Christian County.*

Fusion WBL Program is for Seniors interested in working in their career pathway. There are prerequisites to meet. You will find Fusion Guidelines at <https://sites.google.com/christian.kyschools.us/fusion/home>.

(Students participating in youth apprenticeships may begin working as early as 16 years of age. This is on a case-by-case basis and at the employer's request.)

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# Career Pathways

Located at CCHS and HHS

## [Agriculture Career Pathways](#)

Agribusiness Systems  
Ag Power, Structural & Technical Systems  
Animal Science Systems  
Horticulture & Plant Science Systems

## [Business and Marketing Career Pathways](#)

Accounting  
Administrative Support  
Management and Entrepreneurship  
Marketing

## [JROTC Career Pathway](#)

Army JROTC

## **Gateway Academy Career Pathways Located at CCHS, HHS, and/or GAIT**

### [Family & Consumer Sciences Career Pathways](#)

Consumer & Family Services  
Culinary and Food Services  
Early Childhood Education

## **Located at Gateway Academy's Health Science Campus**

### [Health Science Career Pathways](#)

Allied Health  
Biomedical Sciences  
EKG Technology/Technician  
Patient Care Technician  
Pharmacy Technician  
Phlebotomy Technician  
Pre-Nursing

# Career Pathways

Located at Gateway Academy's Technology Campus

## [Computer Science Career Pathways](#)

Computer Programming  
Cyber Engineering

## [Construction Career Pathway](#)

Residential Maintenance Carpenter Assistant

## [Education and Training Pathway](#)

Teaching and Learning

## [Engineering Career Pathways](#)

Aerospace Engineering  
Automation Engineering  
Civil Engineering  
Electrical/Electronic Engineering  
Mechanical Engineering

## [Industrial Maintenance Technology \(IMT\) Career Pathway](#)

Maintenance Machinist

## [Manufacturing Career Pathway](#)

Welder - Entry Level

## [Media Arts Career Pathway](#)

Graphic Design

## [Transportation Career Pathway](#)

Automotive Maintenance & Light Repair Technician

# Agriculture Pathways

## Pathway Descriptions

[See Career Pathway Grid for Course Sequence](#)

### Agribusiness Systems

Agribusiness systems contribute to the production, processing, marketing, distribution, financing and development of agricultural commodities and resources. This includes food, fiber, wood products, natural resources, horticulture and other plant and animal products and services. Agribusiness is a high-tech industry that uses satellite systems, computer databases and spreadsheets, biotechnology and many other innovations to increase efficiency and profitability.

### Agricultural Power, Structural, Technical Systems

The Agricultural Power, Structural, Technical Systems pathway is built on the application of concepts in engineering, hydraulics, pneumatics, electronics, power, structures, and controls to the field of agriculture. Students design agricultural structures as well as machinery and equipment, while utilizing safe practices of operation and maintenance.

### Animal Science

This pathway focuses on the scientific principles that underline the breeding, care, and management of agricultural animals and the production, processing, and distribution of agricultural animal products. This includes developing better, more efficient ways of producing and processing meat, poultry, eggs and dairy products, as well as studying genetics, nutrition, reproduction, growth and development of animals.

### Horticulture & Plant Science

This pathway focuses on the scientific principles that underlie the breeding, cultivation, and production of agricultural plants, and the production, processing, and distribution of agricultural plant products. Includes instruction in the plant sciences, crop cultivation and production, and agricultural and food products processing.

# Agriculture Career Pathways

Course Sequence	Agribusiness Systems	Ag Power, Structural & Tech Systems	Animal Science	Horticulture & Plant Science
<b>1st Course</b>	Principles of Agricultural Science & Technology	Principles of Agricultural Science & Technology	Principles of Agricultural Science & Technology	Principles of Agricultural Science & Technology
<b>2nd Course</b>	Agriculture Sales and Marketing	Agriculture Construction Skills (offered each school year that begins with an odd number)**	Animal Science	Introduction Greenhouse and Crop Production
<b>3rd Course</b>	Agriculture Communications (HHS only) Greenhouse Technology (CCHS only)	Agriculture Power & Machinery Operation (offered each school year that begins with an even number)**	Small Animal Technology/Equine Science	Greenhouse Technology
<b>4th Course</b>	Agriculture Employability Skills	Agriculture Employability Skills	Veterinary Science	Agriculture Sales and Marketing
<b>Electives</b>	<ul style="list-style-type: none"> <li>• Agriculture Education Co-op</li> <li>• Agriculture Education Internship</li> <li>• Greenhouse Technology</li> </ul>	<ul style="list-style-type: none"> <li>• Agriculture Education Co-op</li> <li>• Agriculture Education Internship</li> </ul>	<ul style="list-style-type: none"> <li>• Agriculture Education Co-op</li> <li>• Agriculture Education Internship</li> <li>• Agriculture Employability Skills</li> </ul>	<ul style="list-style-type: none"> <li>• Agriculture Education Co-op</li> <li>• Agriculture Education Internship</li> <li>• Agriculture Employability Skills</li> </ul>
<b>Dual Credit Options</b>	<ul style="list-style-type: none"> <li>• AGR 199 Contemporary Issues (HHS only)</li> </ul>	<ul style="list-style-type: none"> <li>• AGR 199 Contemporary Issues (HHS only)</li> </ul>	<ul style="list-style-type: none"> <li>• AGR 100 Animal Science</li> <li>• AGR 182 Intro to Pre-Vet (HHS only)</li> <li>• AGR 199 Contemporary Issues (HHS only)</li> </ul>	<ul style="list-style-type: none"> <li>• AGR 140 Plant Science</li> <li>• AGR 199 Contemporary Issues (HHS only)</li> </ul>
<b>Tests for Industry Certification</b>	<ul style="list-style-type: none"> <li>• End of Program Assessment - Agribusiness</li> </ul>	<ul style="list-style-type: none"> <li>• End of Program Assessment - Ag Power Structured Tech Systems</li> </ul> OR <ul style="list-style-type: none"> <li>• iCEV Equipment and Engine Training Council Principles of Small Engine Technology</li> </ul>	<ul style="list-style-type: none"> <li>• End of Program Assessment - Animal Science</li> </ul> OR <ul style="list-style-type: none"> <li>• iCEV Elanco Fundamentals of Animal Science</li> </ul>	<ul style="list-style-type: none"> <li>• End of Program Assessment - Horticulture</li> </ul> OR <ul style="list-style-type: none"> <li>• iCEV BASF Plant Science Certification</li> </ul>

## Freshman Course

\*\*These two courses may be offered on a rotating bases.

Agriculture students will develop communication and leadership skills through the career and technical student organization, Future Farmers of America (FFA).

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# Agriculture

## **030715 Principles of Agricultural Science and Technology**

**1 Credit**

**Grade level: 9**

**Prerequisite: None**

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 descriptions found at <https://kecs.education.ky.gov/public/coursesearch>



# Business & Marketing Pathways

## Pathway Descriptions

[See Career Pathway Grid for Course Sequence](#)

### Accounting

This pathway generally prepares individuals to practice the profession of accounting and to perform related business functions. Includes instruction in accounting principles and theory; financial accounting; managerial accounting; cost accounting; budget control; tax accounting; legal aspects of accounting; auditing; reporting procedures; statement analysis; planning and consulting; business information systems; accounting research methods; professional standards and ethics; and applications to specific for-profit, public, and non-profit organizations.

### Administrative Support

This pathway is designed to provide students an advanced level experience that will propel them into the 21st century business world as they serve in positions such as college interns, administrative assistants, graduate assistants, and office managers. Instruction includes areas of fundamental business procedures, human resource management, time management software, workstation management, travel planning, financial reporting, payroll, mail procedures, effective communication skills, and ethical decision-making skills.

### Management and Entrepreneurship

This pathway generally prepares individuals to plan, organize, direct, and control the functions and processes of a firm or organization. Includes instruction in management theory, human resources management and behavior, accounting and other quantitative methods, purchasing and logistics, organization and production, marketing, and business decision making.

### Marketing

This pathway generally prepares individuals to undertake and manage the process of developing consumer audiences and moving products from producers to consumers. Includes instruction in buyer behavior and dynamics, principle of marketing research, demand analysis, cost-volume and profit relationships, pricing theory, marketing campaign and strategic planning, market segments, advertising methods, sales operations and management, consumer relations, retailing and applications to specific products and markets.

*Business and Marketing students will develop communication and leadership skills through the career and technical student organization, Future Business Leaders of America (FBLA).*

[https://education.ky.gov/CTE/cter/Documents/2021-2022\\_CTE\\_POS.pdf](https://education.ky.gov/CTE/cter/Documents/2021-2022_CTE_POS.pdf)

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# Business and Marketing Career Pathways

Course Sequence	Accounting	Administrative Support	Management Entrepreneurship	Marketing
<b>1st Course</b>	Business & Marketing Essentials	Business & Marketing Essentials	Business & Marketing Essentials	Business & Marketing Essentials
<b>2nd Course</b>	Digital Literacy *	Digital Literacy*	Digital Literacy*	Marketing Principles
<b>3rd Course</b>	Accounting & Finance Foundations*	Accounting & Finance Foundations*	Accounting & Finance Foundations*	Marketing Applications
<b>4th Course</b>	Financial Management	Microsoft Office Specialist	Introduction to Management	Principles of Entrepreneurship
<b>5th Course</b>	Microsoft Office Specialist	Office Administration	Principles of Entrepreneurship	
<b>Electives*** (Courses 1-5 take priority in meeting career pathway requirements)</b>	<ul style="list-style-type: none"> <li>● Business Educ. Co-op**</li> <li>● Advanced Accounting (HHS only)</li> <li>● Ethical Leadership (HHS only)</li> <li>● Personal Finance (Math Credit)</li> </ul>	<ul style="list-style-type: none"> <li>● Business Educ. Co-op**</li> <li>● Ethical Leadership (HHS only)</li> <li>● Personal Finance (Math Credit)</li> </ul>	<ul style="list-style-type: none"> <li>● Business Educ. Co-op**</li> <li>● Ethical Leadership (HHS only)</li> <li>● Marketing Principles</li> <li>● Personal Finance (Math Credit)</li> </ul>	<ul style="list-style-type: none"> <li>● Business Educ. Co-op**</li> <li>● Fashion Marketing (CCHS only)</li> <li>● Sports and Event Marketing (HHS only)</li> <li>● Principles of Entrepreneurship</li> <li>● Personal Finance (Math Credit)</li> </ul>
<b>Test for Industry Certification</b>	<ul style="list-style-type: none"> <li>● End of Program Assessment - Accounting</li> <li>OR</li> <li>● ASK - Concepts of Finance</li> <li>OR</li> <li>● ASK - Fundamental Business Concepts</li> <li>AND</li> <li>MOS Excel, MOS Word, MOS PowerPoint</li> <li>OR</li> <li>TestOut Office Pro</li> </ul>	<ul style="list-style-type: none"> <li>● End of Program Assessment - Administrative Support</li> <li>OR</li> <li>● ASK - Fundamental Business Concepts</li> <li>AND</li> <li>● MOS Excel, Word, AND PowerPoint</li> <li>OR</li> <li>TestOut Office Pro</li> </ul>	<ul style="list-style-type: none"> <li>● End of Program Assessment - Business Management</li> <li>OR</li> <li>● ASK - Fundamental Business Concepts</li> <li>OR</li> <li>ASK - Fundamental Marketing Concepts</li> <li>OR</li> <li>ASK - Concepts of Finance</li> </ul>	<ul style="list-style-type: none"> <li>● End of Program Assessment - Marketing</li> <li>OR</li> <li>● ASK - Fundamental Marketing Concepts</li> <li>OR</li> <li>ASK - Fundamental Business Concept</li> <li>AND</li> <li>TestOut Office Pro</li> </ul>

## Freshman Course

\*Digital Literacy (Fall Semester) and Accounting & Finance Foundations (Spring Semester) should be taken consecutively.

\*\*Business Education Co-op is the work-based learning course offered during the senior year. Additional prerequisites must be met to enroll in this course. *ALL student approved for Business Co-op MUST enroll in a fourth pathway course unless four courses in the pathway have been completed successfully prior to the senior year.*

\*\*\*Elective courses will be offered based on student demand determined through course request.

Business and Marketing students will develop communication and leadership skills through the career and technical student organization, Future Business Leaders of America (FBLA).

# Business

## **060111 Business and Marketing Essentials**

**1 Credit**

**Grade level: 9-12**

**Prerequisite: None**

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

## **060112 Digital Literacy**

**1 Credit**

**Grade level: 9-12**

**Prerequisite: None**

Students will use computer and application software including word processing, presentations, database, spreadsheets, internet, and email to prepare documents and reports. The impact of computers on society and ethical issues are presented. Leadership development will be provided through FBLA.

Course descriptions found at <https://kecs.education.ky.gov/public/coursesearch>



# Family & Consumer Sciences Pathways

## Pathway Descriptions

[See Career Pathway Grid for Course Sequence](#)

### Consumer and Family Services

The Consumer and Family Services pathway helps students develop knowledge and skills that span across a broad range of Family and Consumer Sciences content areas and are central to career areas involving human services, consumer services, consumer protection, and advising, education and training as well as social and community services.

### Culinary and Food Services

This pathway addresses a skill set necessary for success in the culinary industry. The courses in this pathway will help scholars develop skills in early career ladder positions and promote continuing education at the post-secondary level preparing for careers associated with restaurants, institutional food service, hospitality and catering, as well as food and beverage operations.

Example Careers: Chef/Cook, Baker, Entrepreneur, Food Inspector, Butcher

### Early Childhood Education

The Early Childhood Education pathway will address a skill set necessary for success in early childhood education so that individuals can teach students ranging in age from infancy through eight years (great three), depending on the school system or state regulations. This pathway is targeted at individuals preparing for careers related to early childhood education, such as those associated with childcare, teaching, community-based children's programs, social services or counseling for children, and after-school programs.



# Family & Consumer Sciences Career Pathways

Course Sequence	Consumer & Family Services	Culinary and Food Services	Early Childhood Education
<b>1st Course</b>	FCS Essentials	Foods & Nutrition	Early Lifespan Development
<b>2nd Course</b>	Money Skills	Culinary Arts I	Child Development I
<b>3rd Course</b>	Relationships	Culinary Arts II	Child Development II
<b>4th Course</b>	Foods and Nutrition	Advanced Foods & Nutrition	Relationships
<b>Electives</b>	Co-op: Consumer and Family Services	Co-op: Culinary Arts	Co-op: Early Childhood Education
<b>Industry Certification</b>	<ul style="list-style-type: none"> <li>• AAFCS Pre-PAC Family and Community Services</li> </ul> OR <ul style="list-style-type: none"> <li>• AAFCS Pre-PAC Personal and Family Finance</li> </ul> OR <ul style="list-style-type: none"> <li>• CTE End of Program Assessment for Articulated Credit</li> </ul>	<ul style="list-style-type: none"> <li>• ServSafe Food Manager's Credential</li> </ul> OR <ul style="list-style-type: none"> <li>• CTE End of Program Assessment for Articulated Credit</li> </ul>	<ul style="list-style-type: none"> <li>• 3 Commonwealth Child Care Credential - Certificate of Eligibility, KY Early Care and Education Orientation, AND Pediatric Abusive Head Trauma</li> </ul> OR <ul style="list-style-type: none"> <li>• Child Development Associate</li> </ul> OR <ul style="list-style-type: none"> <li>• CTE End of Program Assessment for Articulated Credit</li> </ul>
<b>Co-Curricular Opportunities</b>	FCCLA SkillsUSA	FCCLA SkillsUSA	FCCLA SkillsUSA

## Freshman Courses

Family & Consumer Sciences students will develop communication and leadership skills through the career and technical student organization, Family, Career and Community Leaders of America (FCCLA) and/or SkillsUSA.

# Family & Consumer Sciences

## **200223 Early Lifespan Development**

**1 Credit**

**Grade level: 9-10**

**Prerequisite: None**

This course addresses the concepts related to understanding the areas and stages of human growth and development, recognizing effects of heredity and environment on human growth and development, meeting the needs of exceptional children, promoting optimum growth and development in the infancy, toddler, and preschool stages. Careers in child/human development are explored. Leadership development will be provided through the Family, Career and Community Leaders of America.

## **200113 FCS Essentials**

**1 Credit**

**Grade level: 9**

**Prerequisite: None**

This course is designed to help the freshman or sophomore student achieve more independence in his/her lifestyle. With units of study in basic nutrition and food preparation, care of clothing, basic clothing construction techniques, room decorating, dealing with relationships in the family and with friends, and caring for small children, the course provides an opportunity for pupils to decide about future areas for concentrated study through special interest courses offered for the junior and senior level student. There is a fee charged for the food consumed in the class.

## **200441 Foods and Nutrition**

**1 Credit**

**Grade level: 9-12**

**Prerequisite: None**

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 service.

Course descriptions found at <https://kecs.education.ky.gov/public/coursesearch>

# Military Science JROTC Career Pathway

The Army JROTC program is a cooperative effort between the United States Army and Christian County Public Schools. The program is voluntary and is designed to focus on the development of better citizens by building skills in leadership, personal growth and behaviors, citizenship, decision making, health and fitness, first aid, team building, service learning, and, geography; all within a student-centered learning environment. The program is a stimulus for promoting graduation from high school, and it provides instruction and rewarding opportunities that will benefit the student, community, and nation. JROTC's mission is "To Motivate Young People to Become Better Citizens." Cadets have the opportunity to participate in one of the following Co-Curricular Activities: Drill Team, Color Guard, Raider Team, or the Academic and Leadership Teams (JLAB). Robotics Teams and Rifle Teams are soon to be added. Cadets are expected to maintain satisfactory grades and a high degree of professionalism and discipline. *A JROTC Teacher's recommendation is required for a student to continue to the next year of the program.* Cadets assigned to the Alternative School may be subject to disenrollment.

## **JROTC Course Substitution / Equivalency Credits:**

- JROTC (1year) = Physical Education (.5 credit)

<b>JROTC Career Pathway</b>	
<b>Course Sequence</b>	<b>Army JROTC</b>
<b>1st Course</b>	Army Junior ROTC Level 1
<b>2nd Course</b>	Army Junior ROTC Level 2
<b>3rd Course</b>	Army Junior ROTC Level 3
<b>4th Course</b>	Army Junior ROTC Level 4
<b>Electives</b>	Army Junior ROTC Leadership
<b>Industry Certification</b>	JROTC 3-Year Certificate of Training

[Freshman Course](#)



# Military Science JROTC Career Pathway

## **580240 Army Junior ROTC Level 1**

**Grade level: 9-12**

**1 Credit**

**Prerequisite: None**

This basic course consists of material from the nine core JROTC units designed to develop the *Emerging Leader* emphasizing academic skills, self-awareness and developing a personal plan. Lessons concentrate on; JROTC Foundations, Personal Growth and Behavior, Critical and Creative Thinking, Reading and Vocabulary Comprehension, Studying and Test Taking Strategies, Decision Making, Goal Setting, Anger Management Techniques, Conflict Resolution, Health and Fitness, Stress Management, Geography, and Service Learning. Cadets begin to develop new skills they will use in high school and throughout life. This introductory course develops a greater appreciation of American History, Traditions and the Purpose of Army JROTC. This course introduces Personal Growth and Development, Skills, Traits and Principles necessary to influence human behavior. Cadet rank may be earned within the battalion through demonstrated leadership and participation within the program.

Course descriptions found at <https://kecs.education.ky.gov/public/coursesearch>



# Gateway Academy Technology Campus Pathways

## Pathway Descriptions

[See Career Pathway Grid for Course Sequence](#)

### Transportation

#### Automotive Maintenance and Light Repair Technician

This pathway prepares individuals to apply technical knowledge and skills to repair, service, and maintain all types of automobiles. It includes instruction in brake systems, electrical systems, engine performance, engine repair, suspension and steering, automatic and manual transmission and drive trains, and heating and air conditioning systems.

Example Careers: Automotive Engineer, Service Manager

An Automotive Scholar will become postsecondary ready after successful completion of 1 of the following:

- ASE Industry Certification
- KDE approved Dual Credit Course aligned to the CTE Pathway

### Construction

#### Residential Maintenance Carpenter Assistant

This pathway prepares individuals to apply technical knowledge and skills to keep a building functioning, and to service a variety of structures including commercial and industrial buildings and mobile homes. Includes instruction in the basic maintenance and repair skills required to service building systems, such as air conditioning, heating, plumbing, electrical, major appliances, and other mechanical systems.

A Construction Scholar will become postsecondary ready after successful completion of 1 of the following:

- KDE approved Industry Certification
- KDE approved Dual Credit Course aligned to the CTE Pathway

### Industrial Maintenance Technology (IMT) Maintenance Machinist

Maintenance machinists set up and operate a variety of machine tools and fit and assemble parts to fabricate or repair machine tools and maintain industrial machines, applying knowledge of mechanics, shop mathematics, metal properties, layout, and machining procedures. They observe, listen to and diagnose operating machinery or equipment to correct machine malfunction and determine need for adjustment or repair.

Example Careers: Service Manager, Machine Operator, Machinist Technician, Machinist, Maintenance Machinist, CNC Machine Operator, CNC Programmer, Mechanical Engineer, Industrial Engineer, etc.

### Welding Technology Welder-Entry Level

An entry level welder demonstrates the ability to assist lead welders in the fabrication of steel and metal structures. Scholars must be adept at performing basic welding functions and calculating dimensions as well as operating power equipment, grinders and other related tools. Scholars must be proficient in reading and interpreting basic blueprints and following work procedure specifications (WPS).

Example Careers: Pipe Welder, Certified Welding Inspector (CWI), Certified Welding Educator (CWE), Welding Engineer, Structural Engineer, Mechanical Engineer, etc.

*Automotive Technology, Construction, IMT, and Welding Technology students will develop communication and leadership skills through the career and technical student organization, SkillsUSA.*



## Course Sequence for Pathways at Gateway Academy Technology Campus

Course Sequence	Transportation	Construction	IMT	Manufacturing
	Automotive Maintenance & Light Repair Technician	Residential Maintenance Carpenter Assistant	Maintenance Machinist (IMT)	Welder-Entry Level
<b>1st Course</b>	Automotive Maintenance & Light Repair Section A	Introduction to Building Construction Technology	Blueprint Reading for Machinists	Blueprint Reading for Welding
<b>2nd Course</b>	Automotive Maintenance & Light Repair Section B	Residential Maintenance Carpentry	Fundamentals of Machine Tools - A AND Fundamentals of Machine Tools - B (Each course is ½ credit)	Shielded Metal Arc Welding (SMAW) and Lab
<b>3rd Course</b>	Automotive Maintenance & Light Repair Section C	Residential Maintenance Wiring  AND/OR Residential HVAC Maintenance	Applied Machining I	SMAW Groove Welds with Backing Lab
<b>4th Course</b>	Automotive Maintenance & Light Repair Section D  OR Co-op I (Auto)	Residential HVAC Maintenance  AND/OR Residential Maintenance Plumbing  OR Co-op	Maintaining Industrial Equipment  OR Co-op I (Ind. Maint.)	Senior Options: Gas Metal Arc Welding and Lab  OR Gas Tungsten Arc Welding and Lab  OR Co-op I (Welding)  OR Welding Certification/Special Problems (Welding)
<b>Industry Certification</b>	ASE Student Certification Automotive Maintenance & Light Repair (MLR)  OSHA 10	<ul style="list-style-type: none"> <li>• OSHA 10 AND</li> <li>• National Center for Construction Education Research (NCCER) - Core Curriculum AND</li> <li>• Choose 1 NCCER:               <ul style="list-style-type: none"> <li>• Construction Carpentry Level 1</li> <li>• Electrical Technician Level 1</li> <li>• HVAC Level 1</li> <li>• Plumbing Level 1</li> </ul> </li> </ul>	OSHA 10 AND MSSC - Certified Production Technician (CPT)	2-F (AWS) Welding
<b>Co-Curricular Opportunities</b>	SkillsUSA  VEX Robotics	SkillsUSA  VEX Robotics	SkillsUSA  VEX Robotics	SkillsUSA  VEX Robotics



# Gateway Academy Technology Campus Pathways

## Computer Science & Media Arts Pathways

### Pathway Descriptions

[See Career Pathway Grid for Course Sequence](#)

#### Computer Science Computer Programming

The Computer Programming pathway courses will prepare scholars to design and create apps, as well as troubleshoot the latest programming languages used in industry. Upon completion of this career pathway, scholars will be prepared for an entry level position in the IT field or continue their education in computer programming.

Example Careers: Computer Software Engineer, Database Developer, Computer Hardware Engineer, Computer Network Specialist, Web Developer, Information Security Analyst, Computer Programmer, IT Project Manager

#### Computer Science Cyber Engineering

The Cyber Engineering pathway is a blend of programming, cyber security, and hardware engineering disciplines. Scholars will learn to research, design, develop, and test computer systems and components. The coursework explores topics such as robotics, electricity, and security concerns in today's digital society.

Example Careers: Cybersecurity Engineer, Cybersecurity Analyst, Network Engineer/Architect, Cybersecurity Manager/Administrator, Systems Engineer, Cybersecurity Consultant, Software Developer/Engineer

#### Media Arts Graphic Design

The Graphic Design pathway prepares scholars to apply skills that focus on the principles and techniques for effectively communicating ideas/information and packaging products to business and consumer audiences both in digital and other formats. Topics of study in this pathway include aesthetic meaning, appreciation, and analysis; construction, development, processing, modeling, simulation and programming of interactive experiences; transmission, distribution and marketing; contextual, cultural and historical aspects and considerations

Example Careers: Creative Director, Film and Video Editor, Graphic Designer, Industrial/Product Designer, Marketing Manager, Multimedia Artist



## Course Sequence for Pathways at Gateway Academy Technology Campus

	Computer Science	Computer Science	Media Arts
Course Sequence	Computer Programming	Cyber Engineering	Graphic Design
<b>1st Course</b>	Computer Literacy	Computer Literacy	Introduction to Media Arts
<b>2nd Course</b>	AP Computer Science Principles	AP Computer Science Principles	Two-Dimensional Media Design
<b>3rd Course</b>	Project-Based Programming	Cyber Literacy I	Digital Imaging
<b>4th Course</b>	Object-Oriented Programming I  AND/OR Computer Science Co-op	Object-Oriented Programming I  AND/OR Computer Science Co-op	Media Arts Co-Op/ Internship  OR Advanced Production Design
<b>Electives (to be taken after 6th Course)</b>			
<b>Industry Certification</b>	Certiport Digital Literacy IC3 AND Certiport IT Specialist - JavaScript OR CTE EOP Assessment for Articulated Credit	Certiport Digital Literacy IC3 AND Certiport IT Specialist - Network Security OR Testout PC Pro	Adobe Certified Associate: InDesign AND Adobe Certified Associate: Photoshop OR CTE EOP Assessment for Articulated Credit
<b>Co-Curricular Opportunities</b>	VEX Robotics  SkillsUSA  TSA  IRHS	VEX Robotics  SkillsUSA  TSA  IRHS	VEX Robotics  SkillsUSA  TSA  IRHS

### Freshman Courses

Computer Science Pathway students will develop communication and leadership skills through any of the following organizations: VEX Robotics, SkillsUSA, TSA, and/or IRHS.



# Gateway Academy Technology Campus Pathways Education & Training Pathway

## Education & Training Teaching & Learning

This pathway focuses on the general theory and practice of learning and teaching, the basic principles of educational psychology, the art of teaching, the planning and administration of educational activities, school safety and health issues, and the social foundations of education.

Example Careers: Teacher, Principal, Assistant Principal, School Counselor, Speech Pathologist, Occupational Therapist, Instructional Coach, Superintendent, Assistant Superintendent

Course Sequence	Teaching & Learning Career Pathway Course Sequence
1st Course	The Learning Community
2nd Course	The Learner-Centered Classroom *Dual Credit Option @ Murray State University EDU 280 - Educating for Human Development
3rd Course	The Professional Educator *Dual Credit Option @ Murray State University EDU 222 - Instructional Technology
4th Course	Collaborative Clinical Experience OR Principles of Career and Technical Education *Dual Credit Option @ Murray State University EDU 210 - Principles of CTE OR an AP or Dual Credit course in intended teaching discipline
Industry Certification	AAFCS Pre-PAC Education Fundamentals
Co-Curricular Opportunities	Educators Rising

Freshman Course

*Teaching and Learning scholars will develop communication and leadership skills through the career and technical student organization, Educators Rising.*

Students interested in becoming educators may be interested in applying for the [Rotary Impact Program](#).



# Engineering Pathways

All engineering pathways are consider High Demand.

## Pathway Descriptions

[See Career Pathway Grid for Course Sequence](#)

### Aerospace Engineering

This pathway prepares scholars to develop and evaluate aircraft, space vehicles, and their systems; apply research on flight characteristics; and develop systems and procedures for the launching, guidance, and control of air and space vehicles. Aerospace engineers design aircraft, spacecraft, satellites, and missiles. In addition, they test prototypes to make sure they function according to design.

KDE Suggested Academic Attainment by Completion of Pathway: Minimum of Pre-Calculus, Physics, Chemistry

An Engineering Scholar will become postsecondary ready after successful completion of 1 of the following:

- Engineering Industry Certification
- KDE approved Dual Credit Course aligned to the CTE Pathway

### Automation Engineering

This pathway prepares individuals to apply scientific and mathematical principles to the design, development, and implementation of automated and robotic systems. The pathway includes instruction in materials science and engineering, manufacturing processes, process engineering, assembly and product engineering, robotic systems design, and manufacturing competitiveness. Automation Engineers plan the practices of manufacturing by researching and developing tools, processes, machines, and equipment to integrate the facilities and systems for producing quality products with the optimal expenditure of capital.

KDE Suggested Academic Attainment by Completion of Pathway: Minimum of Pre-Calculus, Physics, Chemistry

An Engineering Scholar will become postsecondary ready after successful completion of 1 of the following:

- Engineering Industry Certification
- KDE approved Dual Credit Course aligned to the CTE Pathway

### Civil Engineering

This pathway prepares scholars to apply mathematical and scientific principles to the design, development and operational evaluation of structural, load-bearing, material moving, transportation, water resource, and material control systems; and environmental safety measures. Civil engineers design, build, supervise, operate, and maintain construction projects and systems in the public and private sector, including roads, buildings, airports, tunnels, dams, bridges, and systems for water supply and sewage treatment.

Example Careers: Civil Engineer, Water Resource Engineer, Agriculture Engineer, Environmental Engineer, Mining Engineer, Engineering Tech, Land Surveyor, Geotechnical Engineer, Public Works, Military Engineer, Forensic Engineer, etc.

KDE Suggested Academic Attainment by Completion of Pathway: Minimum of Pre-Calculus, Physics, Chemistry

An Engineering Scholar will become postsecondary ready after successful completion of 1 of the following:

- Engineering Industry Certification
- KDE approved Dual Credit Course aligned to the CTE Pathway





# Engineering Pathways

All engineering pathways are consider High Demand.

## Pathway Descriptions (Continued)

[See Career Pathway Grid for Course Sequence](#)

### Electrical/Electronics Engineering

This pathway prepares scholars to apply mathematical and scientific principles to the design, development and operational evaluation of electrical/electronic systems and their components. Electrical engineers design, develop, test, and supervise the manufacturing of electrical equipment, such as electric motors, electrical controls, instrumentation, HMI Interfaces, PLCs, industrial controls, and power generation equipment. Electrical engineers design, develop, test and supervise the manufacturing of electrical equipment, such as electric motors, radar and navigation systems, communications systems, and power generation equipment. Electronics engineers design and develop electronic equipment, including broadcast and communications systems, such as portable music players and Global Positioning System (GPS) devices.

Example Careers: Electronic Engineer, Electrical Engineer, Computer Hardware Engineer, Controls Engineer, Robotics Engineer, Instrumentation Engineer, Consulting Engineer, etc.

KDE Suggested Academic Attainment by Completion of Pathway: Minimum of Pre-Calculus, Physics, Chemistry

An Engineering Scholar will become postsecondary ready after successful completion of 1 of the following:

- Engineering Industry Certification
- KDE approved Dual Credit Course aligned to the CTE Pathway

### Mechanical Engineering

This pathway prepares scholars to apply mathematical and scientific principles to the design, development and operational evaluation of physical systems used in manufacturing and end-product systems for specific uses including machine tools, jigs and other manufacturing equipment; stationary power units and appliances; engines; self-propelled vehicles; housings and containers; hydraulic and electric systems for controlling movement; and the integration of computers and remote control with operating systems. Mechanical engineers design, develop, build, and test mechanical and thermal sensors and devices, including tools, engines, and machines.

Example Careers: Mechanical Engineer, Industrial Designer, Industrial Engineer, Aerospace/Aviation Design, Biosystems Engineer, Manufacturing Manager, etc.

KDE Suggested Academic Attainment by Completion of Pathway: Minimum of Pre-Calculus, Physics, Chemistry

An Engineering Scholar will become postsecondary ready after successful completion of 1 of the following:

- Engineering Industry Certification
- KDE approved Dual Credit Course aligned to the CTE Pathway



# Course Sequence for Engineering Pathways

Course Sequence	Aerospace Engineering	Automation Engineering	Civil Engineering	Electrical - Electronics Engineering	Mechanical Engineering
<b>1st Course</b>	Engineering I	Engineering I	Engineering I	Engineering I	Engineering I
<b>2nd Course</b>	Aerospace Engineering	Robotics Engineering	Civil Engineering	Electrical/Electronics Engineering	Mechanical Engineering
<b>3rd Course</b>	Intro to 3D Printing Technology	Intro to 3D Printing Technology	Intro to 3D Printing Technology	Intro to 3D Printing Technology	Electrical/Electronics Engineering
	AND/OR Unmanned Aircraft Systems	AND/OR Unmanned Aircraft Systems	AND/OR Unmanned Aircraft Systems	AND/OR Unmanned Aircraft Systems	AND/OR Intro to 3D Printing Technology
<b>4th Course</b>	Senior Options: <ul style="list-style-type: none"> <li>• AP Computer Science Principles</li> <li>• Electrical/Electronics Engineering</li> <li>• Unmanned Aircraft Systems</li> <li>• Engineering Internship</li> <li>• Engineering Co-op</li> </ul>	Senior Options: <ul style="list-style-type: none"> <li>• AP Computer Science Principles</li> <li>• Electrical/Electronics Engineering</li> <li>• Unmanned Aircraft Systems</li> <li>• Engineering Internship</li> <li>• Engineering Co-op</li> </ul>	Senior Options: <ul style="list-style-type: none"> <li>• AP Computer Science Principles</li> <li>• Unmanned Aircraft Systems</li> <li>• Engineering Internship</li> <li>• Engineering Co-op</li> </ul>	Senior Options: <ul style="list-style-type: none"> <li>• AP Computer Science Principles</li> <li>• Unmanned Aircraft Systems</li> <li>• Engineering Internship</li> <li>• Engineering Co-op</li> </ul>	Senior Options: <ul style="list-style-type: none"> <li>• AP Computer Science Principles</li> <li>• Electrical/Electronics Engineering</li> <li>• Unmanned Aircraft Systems</li> <li>• Engineering Internship</li> <li>• Engineering Co-op</li> </ul>
<b>Industry Certification</b>	<ul style="list-style-type: none"> <li>• FAA Remote Pilot Certificate</li> <li>• NOCTI CAD Foundations</li> </ul>	<ul style="list-style-type: none"> <li>• FAA Remote Pilot Certificate</li> <li>• NOCTI CAD Foundations</li> <li>• FCR-01 FANUC Certified Robot Operator</li> </ul>	<ul style="list-style-type: none"> <li>• FAA Remote Pilot Certificate</li> <li>• NOCTI CAD Foundations</li> </ul>	<ul style="list-style-type: none"> <li>• NOCTI CAD Foundations</li> </ul>	<ul style="list-style-type: none"> <li>• FAA Remote Pilot Certificate</li> <li>• NOCTI CAD Foundations</li> <li>• FCR-01 FANUC Certified Robot Operator</li> </ul>
<b>Co-Curricular Opportunities</b>	VEX Robotics	VEX Robotics	VEX Robotics	VEX Robotics	VEX Robotics
	SkillsUSA	SkillsUSA	SkillsUSA	SkillsUSA	SkillsUSA
	TSA	TSA	TSA	TSA	TSA
	IRHS	IRHS	IRHS	IRHS	IRHS

## Freshman Course

Engineering Pathway scholars will develop communication and leadership skills through the career and technical student organization, Technology Student Association (TSA), VEX Robotics, SkillsUSA, and/or IRHS.

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# Health Science Pathways

## Gateway Academy Health Science Campus

### Pathway Descriptions

[See Career Pathway Grid for Course Sequence](#)

#### Allied Health

This pathway is a general, introductory, undifferentiated, or joint pathway in health services occupations that prepares scholars for either entry into specialized training programs or for a variety of concentrations in the allied health area. Includes instruction in the basic sciences, research and clinical procedures, and aspects of the subject matter related to various health occupations.

Example Careers: Nurse, Pharmacist, Physical Therapist, Psychologist, Radiologist, Veterinarian, etc.

#### PLTW Biomedical Sciences

This pathway focuses on the integrative scientific study of biological issues related to health and medicine. Includes instruction in any of the basic medical sciences at the research level; biological science research in biomedical facilities; and general studies encompassing a variety of the biomedical disciplines.

Example Careers: Biologist, Biomedical Engineer, Biotechnologist, Coroner, Doctor, Forensic Scientist, Pharmacist, Surgeon, etc.

#### EKG Technology/Technician

This pathway prepares scholars, under the supervision of physicians and nurses, to administer EKG and ECG diagnostic examinations and report results to the treatment team. Includes instruction in basic anatomy and physiology, the cardiovascular system, medical terminology, cardiovascular medications and effects, patient care, EKG and ECG administration, equipment operation and maintenance, interpretation of cardiac rhythm, patient record management, and professional standards and ethics.

Example Careers: Diagnostic Medical Sonographer, Medical Assistant, Medical Lab Tech, Nurse, Radiologist

#### Patient Care Technician

This pathway prepares scholars for admission to a professional program in nursing. This pathway focuses on caring for patients in an acute care setting.

Example Careers: CNA, Nursing



# Health Science Pathways

## Gateway Academy Health Science Campus

### Pathway Descriptions (Continued)

[See Career Pathway Grid for Course Sequence](#)

#### Pharmacy Technician

This pathway prepares scholars, under the supervision of pharmacists, to prepare medications, provide medications and related assistance to patients, and manage pharmacy clinical and business operations. Includes instruction in medical and pharmaceutical terminology, principles of pharmacology and pharmaceutics, drug identification, pharmacy laboratory procedures, prescription interpretation, patient communication and education, safety procedures, record-keeping, measurement and testing techniques, pharmacy business operations, prescription preparation, logistics and dispensing operations, and applicable standards and regulations.

Example Careers: Pharmacy Technician

#### Phlebotomy Technician

This pathway prepares scholars, under the supervision of physicians and other healthcare professionals, to draw blood samples from patients using a variety of intrusive procedures. Includes instruction in basic vascular anatomy and physiology, blood physiology, skin puncture techniques, venipuncture, venous specimen collection and handling safety and sanitation procedures, and applicable standards and regulations.

Example Careers: Medical Lab Tech, Phlebotomist

#### Pre-Nursing

This pathway prepares scholars for admission to a professional program in nursing. This pathway focuses on caring for residents in a long term care facility. The rigor of this course is relative to a collegiate nursing program. Excellent attendance is very important.

Example Careers: Licensed Practical Nurse, Nurse, Nurse Practitioner, Nursing Assistant, Physician's Assistant

Pre-Requisites: Successful completion of Principles of Health, Emergency Procedures, Medical Terminology, Body Structures and Functions, and an interview with Keena Daniel and Dawn Ray are all required before a scholar can be enroll in MNA.



# Course Sequence for Health Science Pathways

Course Sequence	Allied Health	PLTW Biomedical Sciences	EKG Technology Technician
1st Course	Principles of Health Science	Principles of Biomedical Science	Principles of Health Science
	Honors Earth Science	Honors Earth Science	Honors Earth Science
2nd Course	Emergency Procedures/ Medical Terminology	Human Body Systems	Emergency Procedures/ Medical Terminology
	Honors Biology OR AP Biology	Honors Biology OR AP Biology	Honors Biology OR AP Biology
3rd Course	Body Structures and Functions	Medical Interventions	Body Structures and Functions
	Honors Introduction to Chemistry & Physics	Honors Introduction to Chemistry & Physics OR AP Biology	Honors Introduction to Chemistry & Physics OR AP Biology
4th Course	Allied Health Core Skills OR Sports Medicine	Biomedical Innovations	EKG Technician
	Honors Chemistry	AP Biology OR Honors Chemistry	AP Biology OR Honors Chemistry
Electives	Internship: Allied Health		Internship: Allied Health
Industry Certification	NOCTI Healthcare Core	NOCTI Biotechnology (Online Portion Only)	NHA Certified EKG Technician (CET)
Co-Curricular Opportunities	HOSA SkillsUSA	HOSA SkillsUSA	HOSA SkillsUSA

## Freshman Course

All Health Sciences Pathway scholars will develop communication and leadership skills through the career and technical student organization, Health Occupations Students of America (HOSA) and/or SkillsUSA.



## Course Sequence for Health Science Pathways (Continued)

Course Sequence	Patient Care Technician	Pharmacy Technician	Phlebotomy Technician	Pre-Nursing
1st Course	Principles of Health Science	Principles of Health Science	Principles of Health Science	Principles of Health Science
	Honors Earth Science	Honors Earth Science	Honors Earth Science	Honors Earth Science
2nd Course	Emergency Procedures/ Medical Terminology	Emergency Procedures/ Medical Terminology	Emergency Procedures/ Medical Terminology	Emergency Procedures/ Medical Terminology
	Honors Biology OR AP Biology	Honors Biology OR AP Biology	Honors Biology OR AP Biology	Honors Biology OR AP Biology
3rd Course	Body Structures and Functions	Body Structures and Functions	Body Structures and Functions	Body Structures and Functions
	Honors Introduction to Chemistry & Physics OR AP Biology	Honors Introduction to Chemistry & Physics OR AP Biology	Honors Introduction to Chemistry & Physics OR AP Biology	Honors Introduction to Chemistry & Physics OR AP Biology
4th Course	Acute Care Basic Skills	Pharmacy Technician	Medical Laboratory Aide (Phlebotomist)	Medicaid Nurse Aide (MNA)
	AP Biology OR Honors Chemistry	AP Biology OR Honors Chemistry	AP Biology OR Honors Chemistry	AP Biology OR Honors Chemistry
Electives	Internship: Allied Health	Internship: Allied Health	Internship: Allied Health	*MNA scholars may participate in Internship: Allied Health if their schedule permits
Industry Certification	NHA Patient Care Technician/Assistant (CPCT/A)	NHA Certified Pharmacy Technician	NHA Certified Phlebotomy Technician (CPT)	Medicaid Nurse Aide (MNA)
Co-Curricular Opportunities	HOSA SkillsUSA	HOSA SkillsUSA	HOSA SkillsUSA	HOSA SkillsUSA

### Freshman Courses

All Health Sciences Pathway scholars will develop communication and leadership skills through the career and technical student organization, Health Occupations Students of America (HOSA) and/or SkillsUSA.

# Language Arts Electives

The following courses are potential offerings based on interest/need.

## **230511 Creative Writing (CCHS only)**

**Grade Level: 9-12**

Content for this course may vary but should provide students an opportunity to analyze and create works such as short stories, one-act plays, poetry and/or personal, expressive pieces.

**1 Credit**

**Prerequisite: None**

## **230140 Literature of a Genre (CCHS only)**

**Grade Level: 9-12**

Special Topics: focused on a specific genre

Mythology - Greek and Roman myths will be the primary focus of this portion of the course, with some emphasis given to Norse-myths. The allusions to mythology in modern art, literature, music and everyday vocabulary will be explored. The material selected for study will include the more familiar myths and those which have had a profound influence on Western culture.

Sports Literature - This will cover magazine articles, biographies, autobiographies, films and novels related to sports topics.

**.50 - 1 Credit**

**Prerequisite: None**

## **239111 Journalism**

**Grade Level: 9-12 CCHS; 10-12 HHS**

Content for this course may vary. Possible topics may include: information gathering, writing, editing/proofreading, layout and production in print, digital and online formats.

**1 Credit**

**Prerequisite: None**

## **231011 Public Speaking**

**Grade Level: 9-12**

Content for this course may vary. Possible topics may include research, preparation, delivery, and analysis of extemporaneous, demonstrative, persuasive (including debate and forensic techniques) and informative oral communication.

**1 Credit**

**Prerequisite: None**

# Science Electives

## **302614 Ecology (HHS only)**

**Grade level: 9-12**

Students will develop understanding of ecological concepts as outlined in the Kentucky Academic Standards for Science, such as cycling of matter, biodiversity, ecosystems, earth systems and human impact. 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 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.

**1 Credit**

**Prerequisite: None**

Course descriptions found at <https://kecs.education.ky.gov/public/coursesearch>

# Science Electives (Continued)

The following courses are potential offerings based on interest/need.

## **304620 Environmental Science (CCHS only)**

**.50 Credit**

**Grade level: 9-12**

**Prerequisite: None**

Students will develop understanding of environmental concepts as outlined in the Kentucky Academic Standards for Science, such as cycling of matter, biodiversity, earth systems, energy flow and climate, and human impact. 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 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.

## **302616 Forensics (CCHS only)**

**.50 Credit**

**Grade level: 9-12**

**Prerequisite: None**

This course is a problem-based inquiry course dealing with Forensic sciences.

## **302615 Zoology (CCHS only)**

**1 Credit**

**Grade level: 9-12**

**Prerequisite: None**

This course focuses on the study of the animal kingdom, including Animal evolution, classification, animal ecology and comparative anatomy.

# Social Studies Electives

## **450878 Contemporary U.S. History**

**.5 Credit at CCHS/1 Credit at HHS**

**Grade level: 9-12 CCHS/10-12 HHS**

**Prerequisite: None**

Contemporary U. S. History is a study of local, state and national government operations; economic issues; citizenship responsibilities; current events and historical origins; problem solving techniques.

## **450875 Kentucky Studies (CCHS only)**

**.50 Credit**

**Grade level: 9-12**

**Prerequisite: None**

The Kentucky Studies elective course brings together various elements of Kentucky Studies stressed in the earlier grades. The course focuses on the historical and cultural forces that have influenced the people and the institutions of the Commonwealth. The Kentucky Studies elective should give equal chronological coverage to Kentucky before and after the Civil War. It should stress the role of geography in the state's development and the importance of the regional variations across Kentucky. The customs of the people, their values, their folklore, and their family life should be examined in the context of such forces as agrarianism and urbanism. All of this should be done through the historical context, and should enhance the forces shaping government, politics and social change. Topics of study may be the arts, civil rights, communications, education, environment, labor history, religions, the sciences and transportation.



# Social Studies Electives (Continued)

The following courses are potential offerings based on interest/need.

## **451039 Law and Justice**

**.50 Credit**

**Grade level: 9-12**

**Prerequisite: None**

Law and Justice is a study of law-civil, criminal, constitutional, and international; the legal and justice systems. Students will examine the need for rules and regulations; interpretations of the constitution, both state and federal; Supreme Court decisions; the Bill of Rights, and individual rights law, criminal law, family law, and consumer law. The study of the basic social contracts of society will enable students to understand the preferred democratic values: justice, equality, responsibility, freedom, rule of law, human rights, honesty, equity, rational process and human dignity.

## **451121 Sociology, General**

**.50 Credit**

**Grade level: 9-12**

**Prerequisite: None**

Sociology is the scientific study of human society. It is concerned with the behavior of human beings in group situations. The study of sociology, therefore, consists of trying to understand: The basic units and institutions of social life, such as the family, schools, neighborhoods, rural and urban communities, and the many other kinds of groups with which humans identify. This group can include occupational, political, religious, ethnic, family, economic status, or ideology. The sociological perspectives focus on how those social relationships arise, why they persist, why antagonisms develop, and how they maintain social order to contribute to social change.

## World Language

### **161108 High School World Languages 1 - Spanish OR**

**1 Credit**

### **161108-H Honors High School World Languages 1 - Spanish**

**Grade Level: 9-12**

**Prerequisite: None**

High School course. Introductory course. It engages students in the target language with developmentally appropriate activities to acquire the language necessary to communicate (interpret, exchange, and present information, concepts and ideas both within the classroom and beyond on a variety of topics including connections to other subject areas). Cultural aspects are typically included in order to understand the relationship among the products, practices and perspectives of the target language's culture. In addition, students develop insight into their own language and culture. *It is recommended that students enrolling in Honors have an A/B average.*

# Visual & Performing Arts

*One (1) visual and performing arts credit is a graduation requirement. High School Survey Course of the Visual and Performing Arts (500111) meets the graduation requirement. Other courses that meet the Visual & Performing Arts graduation requirement include: Visual Arts - Fundamentals of Art and Design, Guitar, Music-Chorus, and Music-General Band. Dual credit Intro. to Humanities course can be used as the required Visual and Performing Arts graduation credit (this will not be a course that qualifies for the 5-point grading scale).*

## **500111 High School Survey Course of the Visual and Performing Arts**

**1 Credit**

**Grade Level: 10-12/9-12 HHS**

**Prerequisite: None**

This course meets the state graduation requirement for visual and performing arts. This survey course includes the standards contained in the Kentucky Academic Standards (KAS) for Visual and Performing Arts. The KAS for Visual and Performing Arts incorporate the five arts disciplines of dance, media art, music, theatre and visual art. Within these five arts disciplines, students should engage with the four Artistic Processes of Creating, Performing/Presenting/Producing, Responding and Connecting. Students will achieve and move beyond the grounding in the arts achieved at the middle school level toward proficiency in the arts. Emphasis for these students should be placed on exposing students to a variety of arts through active experiences, and developing further understanding and appreciation of the historical and cultural significance of the arts. A higher emphasis on the process of responding to the arts is a natural outcome of this more general approach to art education; however engagement in the creative aspects of the arts remains critical in the general education of all students and promotes deep understanding and appreciation of the arts.

## Art

## **500710 Visual Arts - Fundamentals of Art and Design (Formerly Art I)**

**1 Credit**

**Grade Level: 9-12**

**Prerequisite: None**

Meets Visual and Performing Arts graduation requirement. Students are introduced to the basic fundamentals of artistic expression. The course includes experiences in drawing, painting, two- and three-dimensional design, sculpture, and other art forms. The course emphasizes observations, interpretation of the visual environment, visual communication, imagination and symbolism, and an introduction to various visual arts techniques and media. The focus of the course is on application of the fundamental processes of artistic expression and application of the concepts and approaches in the symbolic aspects of art and design to two- and three-dimensional problems so that they demonstrate a range of abilities and versatility with technique, problem solving, and ideation. A study of historical and contemporary art and artists from a worldwide perspective, and instruction and practice in peer review through the critique process, presentation or their, responding to art and connecting their art to the world around them are included.

Course descriptions found at <https://kecs.education.ky.gov/public/coursesearch>



# Music



## Instrumental Music

### **500913 Music - General Band**

**1 Credit**

**Grade Level: 9-12**

**Prerequisite: Teacher Approval**

This course meets the state graduation requirement for visual and performing arts. 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 course is co-curricular. This state course code can be repeated for students that take multiple years of this course. There is a fee for this course.

### **500920 Music - Contemporary Band/Jazz Instrumental Ensemble**

**1 Credit**

**Grade Level: 9-12**

**Prerequisite: Teacher Approval**

This course meets the state graduation requirement for visual and performing arts. 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. This course is co-curricular. Courses are offered on multiple levels to accommodate proficiency.

### **500921 Music - Chamber or Small Instrumental Ensembles**

**1 Credit**

**(Percussion (500921-P), Winds (500921-W), Color Guard (500921-G))**

**Grade Level: 9-12**

**Prerequisite: Teacher Approval**

This course meets the state graduation requirement for visual and performing arts. Students study and perform a variety of traditional styles such as traditional chamber music, and contemporary or popular styles, such as jazz and rock, while also cultivating students' technique on instruments appropriate to the style(s) performed -- brass, woodwind, string, percussion instruments, and/or electronic. Courses typically range in size from 2 to 20 performers. Coursework provides students with opportunities for growth through rehearsal and performance, improvisation, or creating and performing their own compositions and also 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. This course is co-curricular. There is a fee for this course.



# Music

## Vocal Music



### **500925 Music - Chorus**

**Grade Level: 9-12**

**1 Credit**

**Prerequisite: None**

This course meets the state graduation requirement for visual and performing arts. Vocal Ensemble courses are intended to develop vocal techniques and the ability to sing parts in specialized vocal repertoire. These courses may include the development of ensemble singing ability. One or several ensemble literature styles may be emphasized. All members of the Choir will be required to participate in ALL performances, including state and national, and community events. This is a performance class and will require rehearsals and performances after school hours. There is a fee for this course.

### **500926M (Male)/500926F (Female) Music - Vocal Ensemble**

**Grade Level: 9-12**

**1 Credit**

**Prerequisite: Audition and Teacher Approval**

This course meets the state graduation requirement for visual and performing arts. This class is open to vocal students interested in learning advanced vocal techniques. This group performs in at least two major concerts each year. All members of the Choir will be required to participate in ALL performances, including state, national, and community events. This performance class may require rehearsals and performances after school hours. There is a fee for this course.

### **500926-1 Music - Chorus/Adv. Choir/Concert Choir/Vocal Ensemble**

**Grade Level: 9-12**

**1 Credit**

**Prerequisite: Audition and Teacher Approval**

This course meets the state graduation requirement for visual and performing arts. This course will consist of classroom singing with mandatory public performances for assessment. Basic fundamentals of music reading and performance will be taught and developed (sight singing, rhythm comprehension, pitch matching, etc). It is not necessary for the enrolling student to be able to read music. Each student is given a fall and spring calendar of performance requirements. All members of the Choir will be required to participate in ALL performances, including state, national, and community events. Grade evaluation includes mandatory attendance at all calendar events. Courses are offered on multiple levels to accommodate proficiency. There is a fee for this course.

# Theatre

### **500511 Introduction To Theatre**

**Grade Level: 9-12**

**1 Credit**

**Prerequisite: None**

This course meets the state graduation requirement for visual and performing arts. Introduction to Theatre is designed to develop a knowledge of theatrical concepts and techniques that will enable students to create new theatre pieces (work-in-progress/complete), perform existing theatre works and respond to both studio exercises and performances. Introduction to Theatre covers multiple styles of dramatic literature and uses a variety of connections to historical and cultural contexts. Introduction to Theatre sets the stage for both a performance and a technical theatre emphasis and students engage on a basic level with skills and knowledge in and of: acting and improvisation, theatre design and technology, theatre history and appreciation, dramatic literature and critique, and theatre administration.

Course descriptions found at <https://kecs.education.ky.gov/public/coursesearch>

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