



The Academies of the ISD are personalized learning communities, guiding students toward college and career success.



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Every high school student in the Independence School District is enrolled in the Freshman Academy to build an academic foundation before continuing on their path toward college and career success in one of the five ISD Career Academies.

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**The Arts and Education Academy** inspires students to embrace the humanities with pathways focusing on early education, K-12 education, theatre production, visual arts and digital media production.

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**The Business Academy** equips students with the skills, character traits and knowledge to be successful in ever-changing professional work environments with pathways focusing on accounting, finance, marketing, business management, data analytics, architecture, culinary and cosmetology.

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**The Industrial Technology Academy** educates and trains students to meet industry needs and exceed standards with pathways focused on construction, drafting and engineering technology, welding, manufacturing, automotive, computer integrated machining, and industrial maintenance.

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**The Public Service Academy** prepares students for a career dedicated to serving others with pathways focusing on leadership, social services, public safety, international studies, political science and pre-law.

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**The STEM Academy** immerses students in science, technology, engineering and medicine with pathways focusing on programming and software development, computer networking, engineering, aviation and pre-medical fields.

# Digital Media

2 CREDITS • GRADE: 12



**PREREQUISITE: ADVANCED DIGITAL MEDIA PRODUCTION**



This course is designed to educate students in the evolving world of digital media. Students create and produce visual content for their respective high school and the Independence School District. This course teaches students how to produce and build a newscast as well as how to report for television news. Students will be able to

write, shoot and produce their own work but will also learn how to participate in a collaborative, creative environment. Students will receive instruction in newsroom leadership and practice guiding a newscast to completion in a professional newsroom setting. Students from all three high schools will be immersed in a broadcast television newsroom at Independence Arts and Technology.

# Early Childhood

4 CREDITS • GRADES: 11-12



**PREREQUISITE: CHILD DEVELOPMENT**

Dual credit offered through Northwest Missouri State University.



This program offers an exciting, real-world opportunity for students interested in a career in early childhood education. Students will explore and learn about child development and psychology, management and emergency care along with professional childcare techniques. Students will also participate in formal

observation and work with children to build a deeper understanding of all facets of early childhood education. This class meets at Hanthorn Early Education Center.

# Pathways to Teaching Professions II

2 CREDITS • GRADE: 12



**PREREQUISITE: PATHWAYS TO TEACHING PROFESSIONS I**

Dual credit offered through Northwest Missouri State University



Pathways to Teaching is a hands-on, in-depth course for students interested in pursuing a career in education. Students learn all aspects of the teaching profession, including classroom culture, assessments, educational philosophies, classroom strategies and ethics in teaching and administration. Students participate in classroom

observations at various levels from elementary to secondary. Pathways II is a 4 block semester course in the afternoons (blocks 5-8). Two credits of English are also earned. The location for this course varies each year, and observation hours occur at various ISD elementary and middle schools.

## AP Studio Art

2-4 CREDITS • GRADE: 11-12



**PREREQUISITE: SUCCESSFUL COMPLETION OF THE HIGHEST TIER OF A SINGLE MEDIA COURSE (EXAMPLE: PAINTING II, DRAWING II, SCULPTURE II).**



This capstone course will expand critical thinking and decision-making skills through application selection, as well as concepts of composition, color theory and other art and design techniques. Coursework will include service projects, communication with professional artists, contest submissions and the completion of work for a client.

Students will also show their work at an end-of-course exhibit that will be open to the public. This course is held at Independence Arts and Technology.

# Business Finance at Blue Ridge Bank

2 CREDITS • GRADES: 11-12



**PREREQUISITE: ACCOUNTING I OR ACCOUNTING II**  
**DUAL CREDIT AVAILABLE THROUGH MCC**



This course operates a student-assisted bank, introducing students to banking and personal finance. In collaboration with Blue Ridge Bank located on the Independence Square, this course is designed to familiarize students with all aspects of banking, including savings, loans, operations, and audit functions. Students who take this

course for a second time during their senior year complete an immersive internship with the bank. The course provides valuable experience in running a bank while learning to analyze personal financial decisions, evaluate the costs and benefits of their decisions, recognize the rights and responsibilities as consumers and apply the knowledge learned in school to financial situations encountered later in life.

# Digital Marketing

2, 4, OR 6 CREDITS • GRADES: 11-12 ONLINE



**PREREQUISITE: BY TEACHER APPROVAL**  
**DUAL CREDIT AVAILABLE THROUGH MCC**



This course explores the world of digital media marketing and how it impacts and integrates with traditional marketing channels. This course uses Project Based Learning to explore the latest digital marketing trends by helping local small businesses develop their digital presence. Students will research strategies for

success and aid clients in retaining customers via email marketing, online display advertising and social media strategies. This course meets at Independence Arts and Technology.

# Entrepreneurship Capstone

2, 4 OR 6 CREDITS • GRADES: 11-12



**PREREQUISITE: YE1 OR MARKETING**

**IRC: FUNDAMENTALS BUSINESS CONCEPTS (A.S.K.)**

**DUAL CREDIT AVAILABLE THROUGH MCC**



All Things Independence provides students with a unique experiential learning opportunity to gain hands-on business and entrepreneurial skills useful for any career path. Students operate a retail and screen printing business. Students are responsible for all aspects of the business, including

management, marketing, sales, product research, purchasing, inventory, merchandising, graphic design, facilities management, customer service, accounting and financial analysis. Students have the opportunity to dive deeper into their specific areas of interest while learning all facets of operating a business. This course meets at Independence Arts and Technology.

# Pro-Start Culinary Arts

4 CREDITS • GRADES: 11-12



**PREREQUISITE: CULINARY ESSENTIALS**

**IRC: SERVSAFE FOOD MANAGER & PROSTART CERTIFICATE OF ACHIEVEMENT**



The culinary program guides students through every aspect of working in and managing a restaurant. Students focus on safety, sanitation, nutrition and kitchen essentials while also learning business and management elements, including customer service, communication, purchasing, inventory, cost controls and marketing.

Culinary I will use the ProStart curriculum from the National Restaurant Association. ProStart's industry-driven curriculum provides real-world educational opportunities to give students an advantage as they progress toward industry recognized credentials and internships. Students will also work on catering projects and compete in culinary competitions.

# Construction Trades

4 CREDITS • GRADES: 11-12



**PREREQUISITE: ADVANCED WOODS**  
**IRC: CARPENTER'S UNION, OSHA 10**



Construction Trades encourages students to expand their skills and knowledge related to residential and commercial carpentry. This course covers a variety of topics, including installation and trim of windows and doors, installation and repair of gypsum wallboard, advanced site layout, exterior and interior finish work and

thermal and moisture protection, giving students a substantial skill and knowledge foundation typically required for apprentice carpenters. This course is taught at William Chrisman High School.

# Machine Technology

4 CREDITS • GRADES: 11-12



**PREREQUISITE: ADVANCED METALS OR CIM**  
**IRC: NIMS, OSHA 10**



Machine Technology prepares students for employment in a machine shop or related field. Each student will have the opportunity to learn how to properly operate machines and hand tools used in most shops. CNC machines will also be used to produce projects related to the industry. The correct handling and reading

of precision measuring tools along with basic shop math and blueprint interpretation will also be taught. This course is taught at Van Horn High School and William Chrisman High School.



# Emergency Management

2 CREDITS • GRADES: 11-12



**PREREQUISITE: PUBLIC SAFETY**

**IRC: TEEN C.E.R.T. IN EMERGENCY MANAGEMENT (FEMA)**

This course offers an exciting opportunity to learn and experience all facets of emergency management, including the history of emergency management, implementation in conjunction with other agencies, implementation during emergencies and community involvement in emergency response. Students also explore the roles and responsibilities of government and non-governmental organizations as it pertains to disasters through mitigation, preparedness, response and recovery systems. Students in this course complete Teen Citizen Emergency Response Team (C.E.R.T.) training and certification. This course is taught at William Chrisman High School.

## Biomed (PLTW)

1 CREDIT • GRADES: 9-12



**PREREQUISITE: SEE PROGRAM OF STUDIES**

(PBS, HBS, MI and BI)

Dual credit available for various classes through multiple universities.



Whether discovering new cancer treatments or teaching healthy lifestyle choices to their communities, today's biomedical science professionals are tackling big challenges to make the world a better place. PLTW Biomedical Science students are taking on these same challenges before they even graduate

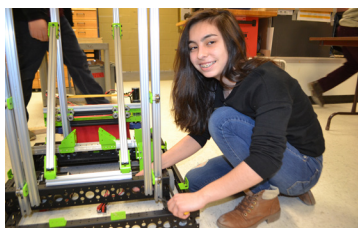
from high school. Working with the same tools used by professionals in hospitals and labs, students engage in compelling, hands-on activities and work together to find solutions to problems. Students gain in-demand knowledge and skills they will use in college and future careers.

# Engineering (PLTW)

1-2 CREDITS • GRADES: 9-12

**PREREQUISITE: SEE PROGRAM OF STUDIES**  
(IED, POE, CEA, CIM, DE, AE & EDD)

Dual credit available for various classes through multiple universities.



Project Lead The Way Engineering engages students in interdisciplinary activities such as designing a home, programming electronic devices and robotic arms or even exploring algae as a biofuel source. This course builds knowledge and skills in engineering and empowers students to develop and strengthen skills vital to any college

or career path, including communication, collaboration, perseverance, creative thinking and problem-solving skills.

# Networking

2-4 CREDITS • GRADES: 11-12

**PREREQUISITE: COMPUTER SCIENCE PRINCIPLES (CSP FROM PLTW)**  
**IRC: CCST, A+, NETWORK +**



These courses offer a hands-on, career-oriented learning experience with an emphasis on practical activities to help students develop fundamental computer and career skills. Information Technology (IT) Essentials helps students prepare for entry level IT career opportunities and certifications: CompTIA A+ and TestOut PC Pro. These courses introduce the architecture, structure, functions, components and models of computer networks. Students develop comprehensive networking concepts and applied skills from networking applications to the protocols and services provided. Students will progress from basic networking to more complex enterprise and theoretical networking models.

These courses provide students with a strong foundation in preparation for CCST certification. This course is taught at William Chrisman High School.

# Software/Programming (PLTW)

1 CREDIT • GRADES: 9-12

**PREREQUISITE: SEE PROGRAM OF STUDIES**

(CSE, CSP, CSA, Student Tech Team or E.D.D., and Cyber Security\*)

\*Currently only offered at Summit Tech Academy



Project Lead The Way Computer Science empowers students to become creators of the technology around them. This course engages students in compelling, real-world challenges. Students go beyond basic coding to explore computational thinking and design solutions.

## Unmanned Flight Safety Operations

2 CREDITS • GRADE: 11-12

**PREREQUISITE: PATHWAY DEPENDANT (COURSE PRECEDING THIS CAPSTONE IN STUDENT'S ACADEMY & PATHWAY SERVES AS A PREREQUISITE)**



This course offers hands-on experience related to unmanned flight, transforming students into professional drone pilots. Students learn and demonstrate best practices for unmanned flight safety, connect with industry professionals and log flight hours on a variety of drone models used by professionals. Students earn a Remote Pilot Certificate from the Federal Aviation Administration upon completion of the Part 107 exam. This course is taught at Van Horn High School.

# Veterinary Capstone

1-2 CREDITS • GRADE: 11-12



## PREREQUISITE: HUMAN BODY SYSTEMS

This course offers an exciting immersion into the veterinary field. Students complete Veterinary Program Management and Veterinary Terminology courses for dual credit at their home school in their junior year. During their senior year, students complete Animal Diseases and Animal Care & Sanitation courses. Students may also enroll in a Veterinary Internship class by semester to work in an area animal shelter or clinic. Students learn veterinary terminology, professional ethics, animal care, breed characteristics, vaccinations and hospital management while working alongside industry professionals.

A Prerequisite for Animal Health Sciences 130 and 140 is Bio 101 taken online through Missouri Western University. All online classes will follow the respective university/college calendars and not ISD's calendar. As well, students are responsible for any application timelines, associated fees and tuition payments etc.



Missouri Governor Mike Parson visits the ISD Academies.

**“When you see the high schools like this, preparing our young men and women, that’s exactly what we want for our future and a showcase for the state of Missouri.”**

- Governor Mike Parson

# Core 42 Sequence

The Core 42 Sequence includes all Independence School District academic core classes guaranteed to transfer one-to-one among all public colleges and universities in the state of Missouri. Students may complete Core 42 Sequence courses in addition to courses corresponding with their ISD Academy Pathway.

## SOPHOMORE YEAR

Tuesday-Friday MCC Dual Credit:

Art or Music Appreciation (3) | U.S. History I (3) | U.S. History II (3)

Monday MCC College Courses:

Business Communications | Drawing 1 | Fundamentals of Speech | General Psychology | Human Nutrition Information Technology Fundamentals | Intro to Business | Intro to Critical Thinking | Intro to Philosophy Introduction to Fiction | Macroeconomics | Microeconomics | Survey of Art | Theater Appreciation | US History to 1865 | US History Since 1865

## SUMMER SCHOOL

Chemistry Non-Lab (3) | Physics Non-Lab (3) | Biology Non-Lab (3)

(Choose One)

Offered at MCC-Blue River

## JUNIOR YEAR

English Comp I (3) | Psychology (3) | English Comp II (3) | Sociology (3) | American Government (3)

Monday MCC College Courses:

Business Communications | Drawing 1 | Fundamentals of Speech | General Psychology | Human Nutrition Information Technology Fundamentals | Intro to Business | Intro to Critical Thinking | Intro to Philosophy Introduction to Fiction | Macroeconomics | Microeconomics | Survey of Art | Theater Appreciation | US History to 1865 | US History Since 1865

## SUMMER SCHOOL

Chemistry Lab (4) | Physics Lab (4) | Biology Lab (4)

(Choose One)

Offered at MCC-Blue River

## SENIOR YEAR

College Algebra (3) | Intro to Literature (3) | General Physics (3) | Speech (3) | Macro Economics (3)

Monday MCC College Courses:

Business Communications | Drawing 1 | Fundamentals of Speech | General Psychology | Human Nutrition Information Technology Fundamentals | Intro to Business | Intro to Critical Thinking | Intro to Philosophy Introduction to Fiction | Macroeconomics | Microeconomics | Survey of Art | Theater Appreciation | US History to 1865 | US History Since 1865

# IRCs Available by Academy

## ▶ ARTS & EDUCATION

**Early Childhood** - AAFCS Childhood Education, Sub. Cert.

**K-12** - AAFCS Education Fundamentals, Paraeducator, Sub. Cert.

**Visual Arts/Digital Media Production** - Adobe Creative Suite, DBA/LLC & Retail License

## ▶ BUSINESS

**Cosmetology** - State Board Certification

**Culinary** - Pro-Start & ServSafe

**Design & Architecture** - Autodesk Revit & AAFCS Interior Design Fundamentals

**Marketing /Management** - A.S.K. Fundamental Business Concepts

## ▶ INDUSTRIAL TECHNOLOGY

**Automotive** - ICAR or ASE

**Construction** - Carpenter's Union IRC & OSHA 10

**Drafting** - Autodesk & ADAA

**Manufacturing** - NIMMS & OSHA 10

**Welding** - AWS

## ▶ PUBLIC SERVICE

**International Studies** - International Relations Council IRC & Missouri Seal of Biliteracy

**Leadership** - US Army IRC

**Public Safety** - EMT License or Police Science IRC, Teen Cert. (FEMA)

**Social Services** - Family & Community Services AAFCS

## ▶ STEM

**Aviation** - Part 107 FAA

**Biomed** - Bioscience Core Skills Institute (BCSI)

**Networking** - A+, Network+ and CCST

**Nursing** - CNA

**Physical Therapy** - FMS Credential

# Programs Offered Off-Site

All programs are 2-4 blocks long. Verify your schedule and availability with your counselor. Transportation will be provided to Herndon and Summit Technology for ISD students.

<p><b>Herndon Career Center</b> RAYTOWN, MO</p>	<p>Auto Tech/Collision Behavioral Health Cosmetology Diesel Mechanics EMT HVAC Industrial Engineering Nursing (CNA) Physical Therapy/Sports Medicine Police Science Welding</p>
<p><b>Summit Technology Academy</b> LEE'S SUMMIT, MO</p>	<p>Aerospace Academy Allied Health Cyber Security Data Analytics Environmental Studies Executive Finance Firefighter Academy International Studies Nursing (Pre-College Studies)</p>
<p><b>Fort Osage Career Center</b> FORT OSAGE</p>	<p>Nail Tech</p>
<p><b>Aviation Institute of Maintenance</b> KANSAS CITY, MO</p>	<p>Aviation Maintenance</p>

NAMED  
**EDUCATION  
INNOVATOR**  
OF THE YEAR

by the Missouri Chamber of Commerce.

MORE THAN  
**100**

AREA BUSINESSES

have partnered with the ISD Academies.

[www.isdschools.org/academies-of-the-isd](http://www.isdschools.org/academies-of-the-isd)