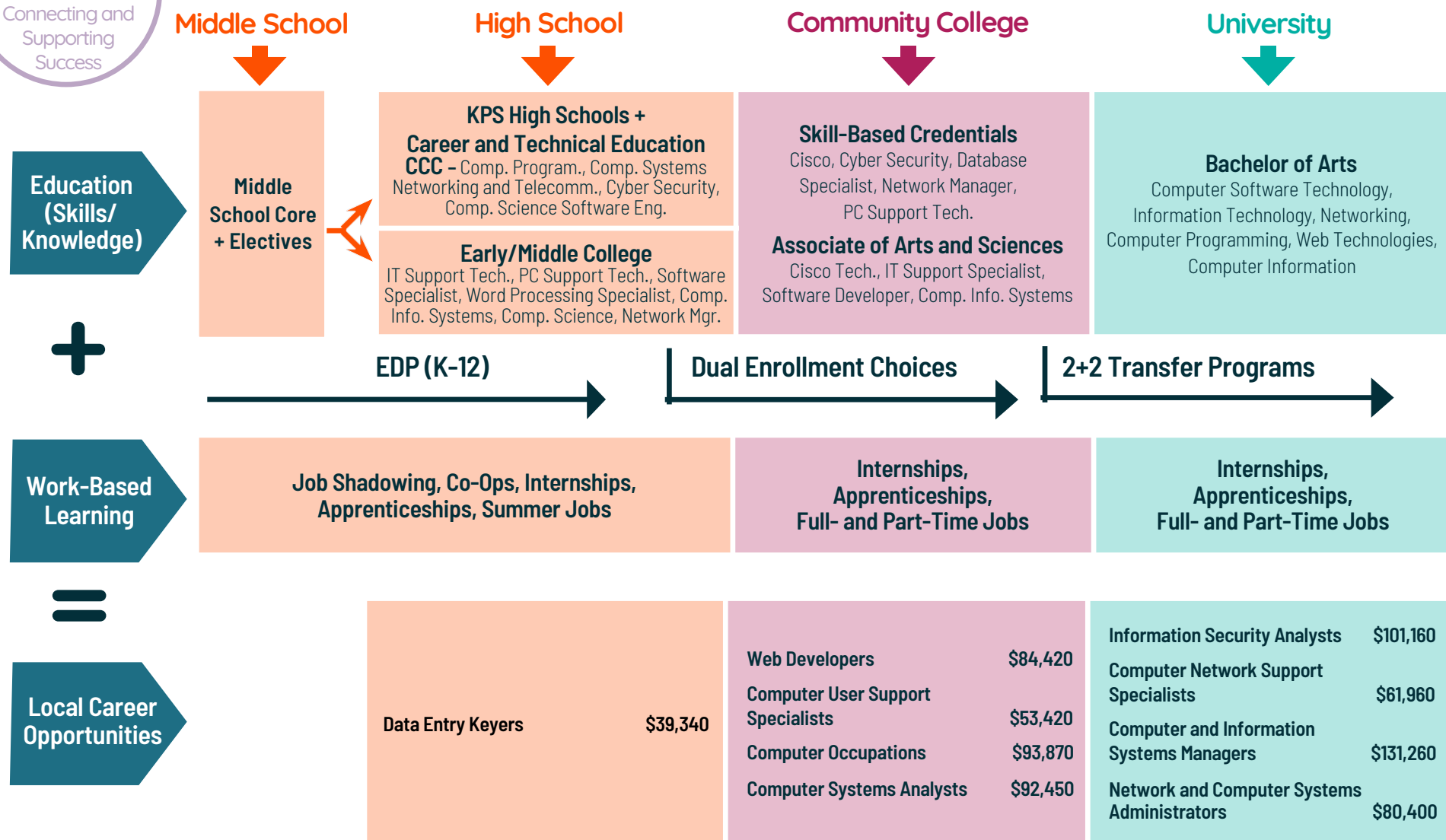




Connecting and Supporting Success

Digital Technology

Digital Technology & AI • IT Support & Services • Network Systems & Cybersecurity • Software Solutions • Unmanned Vehicle Technology • Web & Cloud



Design Your Path to Your Promise
— Explore Where You Can Go.

Kalamazoo Public Schools



Digital Technology

Design Your Path to Your Promise — Here's How You Can Get There.

MIDDLE SCHOOL

English Language Arts	Math	Science	Social Studies	World Language	Enrichment	Career Readiness	Elective Focus
English	6 th Grade Math or Accelerated Math	6 th Grade Science	Social Studies	Mandarin Chinese	Physical Ed./Band, Orchestra, or Choir	Life Skills	Tech Smart/6 th Gr. Graphic Design
English	7 th Grade Math or Accelerated Math	7 th Grade Science	Social Studies	Spanish for Beginners	Physical Ed./Band, Orchestra, or Choir	Life Skills	Tech Smart/7 th Gr. Graphic Design
English	8 th Grade Math or Algebra	Science/Robotics	Social Studies	Spanish Intermediate	Physical Ed./Band, Orchestra, or Choir	Life Skills	Tech Smart/8 th Gr. Graphic Design

HIGH SCHOOL

English Language Arts	Math	Science	Social Studies	World Language	Enrichment	Career Readiness	Elective Focus
English 9 / Honors English	Algebra 1 or Geometry	Environ. Science & Biology (CEB)	World History	Mandarin Chinese	PE	Tech Smart	Band, Orchestra, or Choir and other career programs below.
English 10 / Honors English	Geometry or Algebra II	Biology (DEE)	US History	Mandarin Chinese	Health	College/Career Readiness	
English 11 A or Honors or AP	Algebra II or Discrete Math	Physics or Chemistry	Gov or AP Gov	Mandarin Chinese / French	Information Technology	Economics	
College Eng. 12 or Honors Eng.	Discrete Math	Astronomy	Social Studies Elective	Mandarin Chinese / French	Fine Arts	Computer Programming	

Grade	Possible Career-Connected Pathway Choices		Dual Enrollment Courses	Postsecondary Programs/Majors/Apprenticeships for Occupations in this Career Cluster	
9-12	Information Technology	Graphic Design	<ul style="list-style-type: none"> Intro to Computer Info Systems Linux Operating Systems Intro to Cybersecurity Programming Logic Intro to Smart Devices PC Hardware and Software Support 	Certificates, Associate's Degrees, and Apprenticeships	Bachelor's and Advanced Degrees
10-12	Electronics and Robotics	Computer Science/Software Engineering		<ul style="list-style-type: none"> Cisco Technician, AAS IT Support Specialist, AAS Software Developer, AAS Unmanned Aerial Systems Op. Cert. Database Specialist, COA Network Manager, COA 	<ul style="list-style-type: none"> Computer Software Technology Information Technology Computer Programming Networking Web Technologies Computer Information
10-12	Computer Programming	Cybersecurity			
11-12	AP Computer Science	Electrical Technology			

Kalamazoo Public Schools

College and Career Awareness & Exploration Resources

Higher Education



Early/Middle College Programs

Kalamazoo County Early/Middle College (EMC) is an innovative early college program, which gives students the opportunity to earn an associate degree or certificate with an additional year of high school.



Kalamazoo Valley Community College

Kalamazoo Valley Community College seeks to provide every student with clear, flexible program options that provide a mix of educational skills and experiences that will prepare students for advanced coursework at top universities and meaningful opportunities for employment in a changing world.



Kalamazoo College

Kalamazoo College offers qualified high school students the opportunity to enroll in courses while concurrently enrolled in high school during the fall, winter, and spring terms.



Western Michigan University

Dual enrollment through Early College Programs at WMU provides eligible high school students with credits that may be applied toward high school graduation requirements, as well as a college or university program.



The Kalamazoo Promise

Choosing a career path is one of the biggest and most important decisions you'll ever make. The good news is that The Promise is here to help you find and pursue the career path that fits you best.

Local Career Training Programs



Career Launch Kalamazoo

This modernized Youth Apprenticeship Program that provides flexible occupational training programs that cultivate well-educated, highly skilled workers able to meet the demands of a competitive global economy in careers that are in high demand.



Kalamazoo RESA Career Connect Campus

New in the 2025-2026 school year, students will have the opportunity to participate in programs at the Career Connect Campus (CCC). The inaugural class of students at the CCC will learn from industry experts in a new, state-of-the-art facility.



Teach Kalamazoo

Kalamazoo's Grow Your Own (GYO) Teacher Residency program includes apprenticeships and numerous on-ramps into the teaching profession for undergraduate and graduate students, staff, parents, paraprofessionals, for anyone with an existing bachelor's degree, and/or anyone who is interested in entering the honorable and fulfilling profession of teaching.

Labor Market Tools



Michigan Pathfinder

Pathfinder uses current labor market, wage, and institutional data and metrics to help you create an individualized career roadmap. This free tool provides information to students, parents, and guidance staff to make informed choices about educational and career options.



Pure Michigan Talent Connect

Michigan's free online career exploration tool that provides information on in-demand careers and the degrees or credentials needed to pursue them.

College & Career Exploration and Resources



[Xello Career Exploration](#)

Kalamazoo Public Schools uses the Xello platform so students in grades K-12 can build self-knowledge and explore options beyond high school.



[Michigan Career Development Model](#)

The Michigan Career Development Model (MCDM) is a framework, guided by legislation that engages school communities, students, and their support networks in intentional and meaningful career awareness, exploration, and preparation.



[Advance CTE National Career Clusters Framework](#)

The National Career Clusters® Framework provides a shared structure and language for CTE program design across the United States. The new framework provides meaningful career exploration and preparation experiences through Career Technical Education (CTE) that prepare students for the changing and interconnected world of work.



[Michigan Pathfinder](#)

Pathfinder provides valuable information to help students make informed choices about educational and career options.



[O*NET Online](#)

O*Net provides a collection of resources to inform students' college and career journeys: a Career Exploration Tool, O*NET Interest Profiler, My Next Move, Career One Stop, and Get My Future.



[SAT/PSAT – College Board](#)

The SAT and PSAT are standardized tests meant to show colleges and universities how prepared students are for college by measuring key skills like reading comprehension, computational ability, and clarity of expression.



[EBSCO Learning Express](#)

EBSCO LearningExpress provides online platforms for academic skill building, standardized test preparation, and career-oriented digital content. It helps students prepare for college, explore careers, and accelerate their journey into careers.



[Credential Center](#)

Certifications demonstrate for employers that job candidates have specific skills or knowledge in an occupation, industry, or technology. This site helps students explore training associated with certifications and credentials.



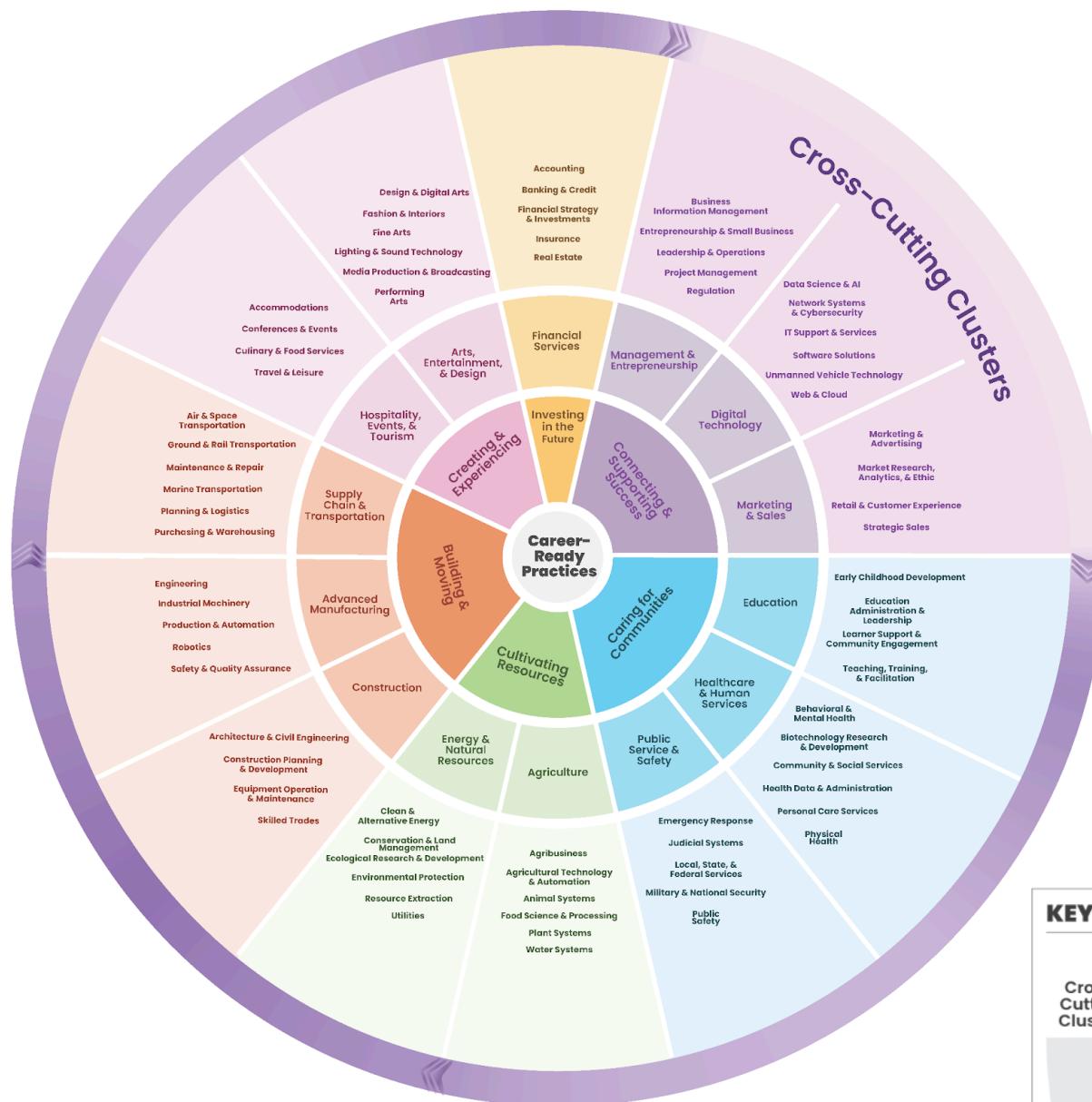
[Apprenticeship USA](#)

Discover apprenticeships across industries, how programs are started by employers, and how to become an apprentice.



[ASVAB Career Exploration](#)

The Armed Services Vocational Aptitude Battery (ASVAB) is a multiple-aptitude battery that measures developed abilities and helps predict future academic and occupational success in the military.



KEY



Cross-Cutting Cluster | Digital Technology: Modernizing Industries & Connecting Communities

Cluster Definition: The Digital Technology Career Cluster focuses on developing digital systems for communication and data storage using critical technologies such as artificial intelligence (AI), data analytics, and cybersecurity. This Cluster builds skills necessary for all careers to navigate and lead in the constantly evolving tech landscape and drives innovation across all industries to tackle complex challenges and opportunities in communities and economies.

Sub-Clusters

Example Programs of Study

Data Science & Artificial Intelligence: Careers combining the power of data analysis, machine learning, and artificial intelligence (AI), including key processes such as data modeling and natural language processing. Professionals in this field apply critical thinking to work on innovative solutions to interpret vast amounts of information, automate decisionmaking processes, develop intelligent algorithms that improve with experience, and enhance communication between humans and machines. AI requires attention to ethical standards and is poised to revolutionize all industries by enhancing efficiency, personalizing experiences, and driving innovation.

Applied Data Science & Analytics

Information Technology (IT) Support & Services: Careers focused on providing setup, assistance, and problem-solving solutions for software, hardware, and other technology-related issues to ensure smooth and efficient operation of communication and data systems for individuals and organizations. This field is essential in maintaining, supporting, and optimizing technological infrastructure, ensuring minimal disruption and maximum efficiency.

Information Support & Services

Network Systems & Cybersecurity: Careers focused on establishing and managing communication networks and protecting them against cyber threats. This Sub-Cluster includes network setup, administration, and maintenance and the implementation of security measures to prevent unauthorized access and data breaches.

Computer Networking
Cybersecurity
IT Systems

Software Solutions: Careers involved in the development and maintenance of software solutions, built on computer science and encompassing programming, application development, and front-end and back-end software development. This Sub-Cluster also includes developing emerging technologies such as augmented and virtual reality, the Internet of Things, distributed ledger technologies, and quantum computing. It involves creating the underlying code and systems that power applications, designing user interfaces for optimal user experience, and building server-side technologies that process data behind the scenes.

App Design
Computer Simulation
Game Development
Programming

Unmanned Vehicle Technology: Careers related to the development, operation, and use of unmanned vehicles, such as unmanned aerial vehicles, drones, and autonomous ground vehicles, across various sectors. Applications include aerial surveying, precision farming, search and rescue, delivery services, resource management, hazardous environment remediation, and infrastructure inspection. Professionals in this field engage in design, programming, data analysis, and operational management.

Drone Technology
Unmanned Aircraft Systems

Web & Cloud: Careers focused on creating and managing websites and web applications, including front-end and back-end development and maintenance, as well as overseeing cloud services and infrastructure. This field merges software skills with user interface/user experience and cloud management expertise, ensuring website functionality, security, and cloud efficiency.

Cloud Computing
Web & Digital Communications
Web Development