

# **THE ACADEMIES OF LOUISVILLE**

**PREPARED. EMPOWERED. INSPIRED.**

## Goals of The Academies of Louisville Partnership

*Offer students a "progressive path to employment" by offering your time and facility for*

- Tours
- Job Shadowing
- Clinical Locations
- Internships
- Paid Co-Op Experience
- Industry Certification Exam Tutors

*Provide students career mentoring opportunities through*

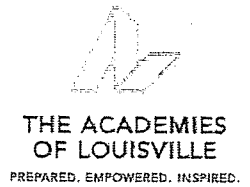
- Becoming a Guest Speaker in the classroom
- Providing a Virtual interview
- Participating in Student Presentations
- Conducting Mock Interviews

*Support teachers by*

- Providing Teacher Externships
- Offering ideas for Curriculum Development
- Sharing ideas for Project Based Learning events
- Serving on an Advisory Board
- Providing Learning Supplies

# Academies of Louisville

## Business Academies Partnerships



### Pathways Offered

#### Financial Services

Description	Certification	Suggested Locations	Academy of Louisville Schools
This pathway prepares students to perform a wide variety of consumer services in banks and credit unions, insurance agencies, and related enterprises. Students get foundational skill sets in business principles, accounting, finance, and customer service	<ul style="list-style-type: none"> <li>ASK Certification</li> <li>CUNA Service Modules</li> </ul>	<ul style="list-style-type: none"> <li>Credit Unions</li> <li>Banks</li> <li>Accounting firms</li> <li>Small offices</li> </ul>	<ul style="list-style-type: none"> <li>Ballard</li> <li>Doss</li> <li>Southern</li> </ul>

#### E-Commerce Pathway

Description	Certification	Suggested Locations	Academy of Louisville Schools
This pathway prepares students to focus on using the internet as a way to reach customers. Students get foundational skill sets in marketing, multimedia design, and business principals.	<ul style="list-style-type: none"> <li>ASK Certification</li> <li>2 Adobe Certifications</li> </ul>	<ul style="list-style-type: none"> <li>Marketing Departments</li> <li>Business offices</li> <li>Web Design firms</li> <li>Advertising agencies</li> </ul>	<ul style="list-style-type: none"> <li>Ballard</li> <li>Jeffersontown</li> <li>Moore</li> <li>PRP</li> <li>Valley</li> <li>Western</li> </ul>

#### Management & Entrepreneurship

Description	Certification	Suggested Locations	Academy of Louisville Schools
This pathway prepares individuals to work in various office settings. Students get a foundation in business principles and operations, management theory, marketing, and organization and production.	<ul style="list-style-type: none"> <li>ASK Certification</li> </ul>	<ul style="list-style-type: none"> <li>Business Offices</li> <li>Corporate Offices</li> <li>Advertising agencies</li> </ul>	<ul style="list-style-type: none"> <li>Doss</li> <li>Jeffersontown</li> </ul>

#### Administrative Support

Description	Certification	Suggested Locations	Academy of Louisville Schools
This pathway focuses on the skills and software necessary for entry level office work. Students get a foundation in business principles, Microsoft Office software, and business procedures.	<ul style="list-style-type: none"> <li>ASK Certification</li> </ul>	<ul style="list-style-type: none"> <li>Business Offices</li> <li>Corporate Offices</li> </ul>	<ul style="list-style-type: none"> <li>Ballard</li> <li>Moore</li> <li>PRP</li> <li>Valley</li> <li>Western</li> </ul>

# Academies of Louisville

## Information Technology Academies Partnerships



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### Pathways Offered

#### Cyber Engineering

Description	Certification	Suggested Locations	Academy of Louisville Schools
This pathway is an engineering STEM program with a focus on cyber security. Students get a foundation of skillsets in robotics, electricity, programming, and cyber security.	<ul style="list-style-type: none"> <li>• CompTIA IT Fundamentals</li> <li>• CompTIA A+</li> <li>• CompTIA Network+</li> <li>• CompTIA Security+</li> </ul>	<ul style="list-style-type: none"> <li>• Technology Firms</li> <li>• Small businesses</li> <li>• IT Departments within Large organizations</li> <li>• Computer Support Centers</li> </ul>	<ul style="list-style-type: none"> <li>• Seneca</li> <li>• Southern</li> </ul>

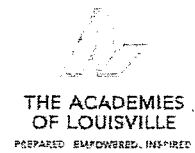
#### Information Support and Services

Description	Certification	Suggested Locations	Academy of Louisville Schools
This pathway focuses on the design, support, and management of computer systems. Students get a foundation in computer repair, help desk operations, and technology management.	<ul style="list-style-type: none"> <li>• CompTIA IT Fundamentals</li> <li>• CompTIA A+</li> <li>• CompTIA Network+</li> <li>• CompTIA Security+</li> </ul>	<ul style="list-style-type: none"> <li>• Technology Firms</li> <li>• Small businesses</li> <li>• IT Departments within Large organizations</li> <li>• Computer Support Centers</li> </ul>	<ul style="list-style-type: none"> <li>• Doss (Hybrid IT Program)</li> <li>• Waggener</li> </ul>

#### Computer Science, Web Development, & Programming

Description	Certification	Suggested Locations	Academy of Louisville Schools
The pathway focuses on the design, creation, and debugging of computer programs on various platforms. Students get a foundation in programming on a various technology platforms such as web, mobile, and desktop systems. Current common computer languages include HTML/CSS for web and Python, C#, and/or Java for application programming. Languages and courses vary by school and program and can change based on market demand.	<ul style="list-style-type: none"> <li>• CompTIA IT Fundamentals</li> <li>• Microsoft Technical Associate (MTA)</li> <li>• Adobe Certifications</li> </ul>	<ul style="list-style-type: none"> <li>• Technology Firms</li> <li>• Small businesses</li> <li>• IT Departments within Large organizations</li> <li>• Computer Support Centers</li> </ul>	<ul style="list-style-type: none"> <li>• Ballard</li> <li>• Waggener</li> </ul>

Academies of Louisville  
Agriculture, Culinary, Early Childhood, Law, Public Services,  
And Teaching & Learning Academies Partnerships



**Pathways Offered**

**Animal Science Systems (Pre-Vet)**

Description	Certification	Suggested Locations	AL Schools
It 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.	<ul style="list-style-type: none"> <li>NAVTA - Veterinary Assisting Certification</li> <li>ICEV - Elanco Fundamentals of Animal Science</li> </ul>	<ul style="list-style-type: none"> <li>Veterinary Clinic</li> <li>Animal Hospital</li> <li>Zoo</li> <li>Breeding Farm</li> </ul>	<ul style="list-style-type: none"> <li>Seneca</li> </ul>

**Environmental Science & Natural Resources**

Description	Certification	Suggested Locations	AL Schools
It focuses on the studies and activities related to the natural environment and its conservation, use, and improvement (e.g., climate, air, soil, water, land, fish and wildlife, and plant resources). It also focusses on natural resources management; and the recreational and economic uses of renewable and nonrenewable natural resources.	<ul style="list-style-type: none"> <li>N/A</li> <li>KOSSA</li> </ul>	<ul style="list-style-type: none"> <li>Conservation Office</li> <li>Park</li> <li>Environmental Office</li> <li>Wildlife Office</li> </ul>	<ul style="list-style-type: none"> <li>Seneca</li> </ul>

**Horticulture**

Description	Certification	Suggested Locations	AL Schools
It 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.	<ul style="list-style-type: none"> <li>ICEV - Bayer Crop Science Plant Science</li> </ul>	<ul style="list-style-type: none"> <li>Landscape company</li> <li>Farm</li> <li>Nursery/Greenhouse</li> <li>Floristry</li> </ul>	<ul style="list-style-type: none"> <li>Seneca</li> </ul>

**Agribiotechnology**

Description	Certification	Suggested Locations	AL Schools
It focuses on the application of scientific principles and techniques to advance the agriculture industry. Focusing on animal and plant concepts. Students analyze current procedures in agriculture while synthesizing new ways of thinking.	<ul style="list-style-type: none"> <li>N/A</li> <li>KOSSA</li> </ul>	<ul style="list-style-type: none"> <li>Veterinary Clinic</li> <li>Park</li> <li>Botanical Garden</li> </ul>	<ul style="list-style-type: none"> <li>Moore</li> </ul>

**Early Childhood Education & Early Childhood Education TRACK**

Description	Certification	Suggested Locations	AL Schools
This pathway is targeted for individuals preparing for careers related to early childhood education, such as those associated with child care, teaching, community based children's programs, social services or counseling for children, and after-school programs.	<ul style="list-style-type: none"> <li>2 Certificates Required (Kentucky Early Care &amp; Education Orientation Commonwealth Child Care Credential - Certificate of Eligibility)</li> <li>AAFCS Pre-PAC Early Childhood Education</li> <li>Child Development Associate (CDA)</li> <li>Kentucky TRACK Pre-Apprenticeship Certification</li> </ul>	<ul style="list-style-type: none"> <li>Day Care</li> <li>Head Start Programs</li> <li>Pediatric Clinic</li> </ul>	<ul style="list-style-type: none"> <li>Seneca</li> <li>Shawnee</li> </ul>

**Teaching and Learning**

Description	Certification	Suggested Locations	AL Schools
It 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.	<ul style="list-style-type: none"> <li>AAFCS Pre-PAC Education Fundamentals</li> <li>Praxis 1</li> <li>Educators Rising Micro-credentials (Performance-based assessments)</li> </ul>	<ul style="list-style-type: none"> <li>P-12 Education</li> <li>Instructional Coach</li> <li>Tutor</li> <li>Child Enrichment Programs (CEP)</li> </ul>	<ul style="list-style-type: none"> <li>Ballard</li> <li>Moore</li> <li>Seneca</li> <li>Southern</li> </ul>

**Pre-Law**

Description	Certification	Suggested Locations	AL Schools
Students will obtain skills in preparation for legal careers in law firms, courtrooms, government, and businesses.	<ul style="list-style-type: none"> <li>NOCTI--Criminal Justice--Advanced</li> </ul>	<ul style="list-style-type: none"> <li>Law Firm</li> <li>Court System</li> </ul>	<ul style="list-style-type: none"> <li>Seneca</li> </ul>

**Culinary**

Description	Certification	Suggested Locations	AL Schools
The courses in this pathway will help students develop skills in early career ladder positions and promote continuing education at the postsecondary level preparing for careers associated with restaurants, institutional food service, hospitality and catering, as well as food and beverage operations.	<ul style="list-style-type: none"> <li>AAFCS Pre-PAC Culinary Arts</li> <li>ServSafe Food Managers</li> <li>ProStart Certificate of Achievement (COA)</li> </ul>	<ul style="list-style-type: none"> <li>Bakery</li> <li>Restaurant</li> <li>Butchery</li> <li>Catering</li> </ul>	<ul style="list-style-type: none"> <li>Moore</li> </ul>

# Academies of Louisville

## Health Science Academies Partnerships



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### Pathways Offered

#### Patient Care - Patient Care Technician

Description	Certification	Suggested Locations	Academy of Louisville Schools
<i>This pathway prepares individuals for an entry-level position in Patient Care. This pathway focuses on caring for patients in an acute care setting or Physician's Office setting.</i>	<ul style="list-style-type: none"> <li>Healthcare Provider CPR</li> <li>Healthcare Core NOCTI</li> <li>NHA* Certified Patient Care Technician</li> </ul>	<ul style="list-style-type: none"> <li>Acute Care Facilities</li> <li>Doctor's Practices</li> <li>Clinics</li> </ul>	<ul style="list-style-type: none"> <li>Doss</li> <li>Moore</li> <li>PRP</li> <li>Seneca</li> <li>Shawnee</li> <li>Valley</li> <li>Waggener</li> <li>Western</li> </ul>

#### Patient Care - Pre-Nursing

Description	Certification	Suggested Locations	Academy of Louisville Schools
<i>This pathway prepares individuals for admission to an entry-level position in a long-term care (LTC) facility or a professional program in Nursing. This pathway focuses on caring for residents in LTC.</i>	<ul style="list-style-type: none"> <li>Healthcare Provider CPR</li> <li>Healthcare Core NOCTI</li> <li>Medicaid Nurse Aide State Assessment</li> </ul>	<ul style="list-style-type: none"> <li>Long-Term Care Facilities</li> </ul>	<ul style="list-style-type: none"> <li>Doss</li> <li>Jeffersontown</li> <li>Moore</li> <li>PRP</li> <li>Valley</li> <li>Waggener</li> </ul>

#### Pharmacy Technician

Description	Certification	Suggested Locations	Academy of Louisville Schools
<i>This pathway prepares individuals, under the supervision of pharmacists, to prepare medications, provide medications and related assistance to patients, and manage pharmacy clinical and business operations.</i>	<ul style="list-style-type: none"> <li>Healthcare Provider CPR</li> <li>Healthcare Core NOCTI</li> <li>NHA* Pharmacy Technician Certification</li> </ul>	<ul style="list-style-type: none"> <li>Retail Pharmacies</li> </ul>	<ul style="list-style-type: none"> <li>Moore</li> <li>PRP</li> <li>Valley</li> <li>Waggener</li> </ul>

#### Medical Office Support

Description	Certification	Suggested Locations	Academy of Louisville Schools
<i>This pathway prepares individuals, under the supervision of office managers and other professionals, to perform routine administrative duties in a medical, clinical, or health care facility/system office environment.</i>	<ul style="list-style-type: none"> <li>NHA* Certified Medical Administrative Assistant</li> </ul>	<ul style="list-style-type: none"> <li>Any Physician's Office</li> </ul>	<ul style="list-style-type: none"> <li>Shawnee</li> <li>Valley</li> <li>Western</li> </ul>

\*National Healthcare Association

# Academies of Louisville

## Media Arts Academies Partnerships



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### Pathways Offered:

#### Cinematography & Video Production

Description	Certification	Suggested Locations	Academy Schools
<p>The Cinematography and Video Production pathway prepares students to communicate dramatic information, ideas, moods, and feelings through the making and producing of videos and cinematographic expression. The pathway includes the theory of video, video technology and equipment operation, video production, video directing, video editing, cinematographic art, video and audio technique, and multi-media production. The pathway prepares students to function as staff, producers, directors, and managers of media programming and media organizations. Topics of study in this pathway include writing and editing; performing; media regulations, law, and policy; aesthetic meaning, appreciation, and analysis; construction, development, processing, modeling, simulation and programming of audio, and moving image programs and messages; transmission, distribution, and marketing; contextual, cultural and historical aspects, and considerations.</p>	<ul style="list-style-type: none"> <li>• Adobe Certifications (2)</li> <li>• Final Cut Pro X</li> </ul>	<ul style="list-style-type: none"> <li>• News Stations</li> <li>• Production Companies</li> <li>• Film sets or locations</li> </ul>	<ul style="list-style-type: none"> <li>• Ballard</li> <li>• PRP</li> </ul>

#### Graphic Design

Description	Certification	Suggested Locations	Academy Schools
<p>The Graphic Design pathway prepares students 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.</p>	<ul style="list-style-type: none"> <li>• Adobe Certifications (2)</li> </ul>	<ul style="list-style-type: none"> <li>• Marketing Departments</li> <li>• Business Offices</li> <li>• Advertising Agencies</li> </ul>	<ul style="list-style-type: none"> <li>• Ballard</li> <li>• PRP</li> <li>• Western</li> </ul>

#### Interactive Media Arts

Description	Certification	Suggested Locations	Academy Schools
<p>The Interactive Media pathway prepares students to use computer applications and related visual and sound imaging techniques to manipulate images and information originating as video, still photographs, digital copy, soundtracks, and physical objects in order to communicate messages simulating real-world content. The pathway includes instruction in specialized camerawork and equipment operation and maintenance, image capture, computer applications, dubbing, and applications to specific commercial, industrial, and entertainment needs.</p>	<ul style="list-style-type: none"> <li>• Adobe Certifications (2)</li> </ul>	<ul style="list-style-type: none"> <li>• Business Offices</li> <li>• Corporate Offices</li> <li>• Advertising agencies</li> </ul>	<ul style="list-style-type: none"> <li>• Ballard</li> <li>• PRP</li> <li>• Shawnee</li> </ul>

# Academies of Louisville

## Manufacturing Academies Partnerships



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### Pathways Offered

#### Manufacturing – Machine Operator

Description	Certification	Suggested Locations	Academy of Louisville Schools
<i>Machine operators are responsible for producing precision machined parts. They measure parts with precision tools in order to make sure parts meet pre-determined quality and cosmetic standards.</i>	<ul style="list-style-type: none"> <li>• NIMS - Machine Tool Certification</li> <li>• (MSSC): Certified Production Technician</li> <li>• Certified Solid Works Associate</li> <li>• MasterCam CNC Certification</li> <li>• Kentucky TRACK Pre-Apprenticeship Certification</li> </ul>	<ul style="list-style-type: none"> <li>• Manufacturing Company</li> <li>• Machine Shops</li> <li>• Assembly Company</li> </ul>	<ul style="list-style-type: none"> <li>• Jeffersontown</li> <li>• Southern</li> </ul>

#### Manufacturing – Electrical Technician

Description	Certification	Suggested Locations	Academy of Louisville Schools
<i>Electrical Technicians apply electrical theory and related knowledge to diagnose electrical machinery, electrical control equipment and circuitry in industrial or commercial plants.</i>	<ul style="list-style-type: none"> <li>• NCCER - Industrial Maintenance Electrical</li> <li>• Manufacturing Skill Standards Council (MSSC): Certified Production Technician</li> <li>• Kentucky TRACK Pre-Apprenticeship Certification</li> </ul>	<ul style="list-style-type: none"> <li>• Manufacturing Company</li> <li>• Assembly Company</li> </ul>	<ul style="list-style-type: none"> <li>• Valley</li> <li>• Waggoner</li> </ul>

#### Manufacturing – Welding Technician

Description	Certification	Suggested Locations	Academy of Louisville Schools
<i>An Entry Level Welder demonstrates the ability to assist lead welders in the fabrication of steel and metal structures. Must be proficient in reading and interpreting basic blueprints and following work procedure specifications (WPS).</i>	<ul style="list-style-type: none"> <li>• AWS - Sense Certification (Level 1)</li> <li>• 2-F (AWS) Qualification Certification</li> <li>• Kentucky Department of Transportation 3-G</li> <li>• Kentucky TRACK Pre-Apprenticeship Certification</li> </ul>	<ul style="list-style-type: none"> <li>• Weld Companies</li> <li>• Manufacturing Company</li> <li>• Machine Shops</li> <li>• Assembly Company</li> </ul>	<ul style="list-style-type: none"> <li>• Jeffersontown</li> <li>• PRP</li> </ul>

#### Manufacturing & Engineering – Manufacturing Engineering

Description	Certification	Suggested Locations	Academy of Louisville Schools
<i>Design and development of integrated systems for production processes using engineering principles and quality control, automation, and cost analysis to resolve production problems in the manufacture of products.</i>	<ul style="list-style-type: none"> <li>• Certified Production Technician CPT</li> <li>• Robotic Education Certificate</li> </ul>	<ul style="list-style-type: none"> <li>• Manufacturing Company</li> <li>• Machine Shop</li> <li>• Assembly Factory</li> </ul>	<ul style="list-style-type: none"> <li>• Doss</li> <li>• Shawnee</li> <li>• Southern</li> </ul>



## Goals of Manufacturing Academies Partnership

*Offer students a "progressive path to employment" by offering your facility for*

- Tours
- Job Shadowing
- Internships
- Paid Co-Op Experience
- TRACK Apprenticeships
- Industry Certification Exam Tutors
- Industry Certification Exam Tutors

*Provide students career mentoring opportunities through*

- Becoming a Guest Speaker in the classroom
- Providing a Virtual interview
- Provide a class demonstration of an Manufacturing Skill
- Participating in Student Presentations
- Conducting Mock Interviews

*Support Manufacturing Teacher's by*

- Providing Teacher Externships
- Offering ideas for Curriculum Development
- Sharing ideas for Project Based Learning events
- Serving on Advisory Board
- Providing Learning Supplies

*Kentuckiana Manufacturing Career Center (KMCC) Partnership*

- Hiring Event – Juniors & Seniors (annually)