

2023-2024

## Career Pathway: *Hospitality & Tourism*



A career in hospitality and tourism requires certain skills and education depending on job requirements. Skills include management, marketing, and operations of restaurants and other culinary arts services, lodging, attractions, recreation events, and travel related services.

### Exposure Pathways

#### High School Courses

Culinary Basics	ProStart Two
Foundations of Living	Food Science and Safety
ProStart One	

#### Job Shadows & Internships

Cafe Line Cook	Special Events
Chef Assistant	Travel Agent
Cosmetology	


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### Experience Pathways

#### College CTE Courses in High School

ProStart One	ProStart Two
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### Pursuit Pathways

#### Certificates/Diplomas

Baking & Pastry Arts	Hospitality Management
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#### Careers & Median Salary Information

Gaming Manager \$57,600	Tour Guide \$28,800
Animal Trainer \$31,500	Hotel, Motel, & Resort Desk Clerk \$21,400

#### Associate Degrees

Culinary Arts	Hospitality Management
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#### Careers & Median Salary Information

Travel Agent \$4,700	Chef & Head Cook \$37,000
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#### Bachelor Degrees

Hospitality Management	Event Management
Business Administration	

#### Careers & Median Salary Information

Lodging Manager \$36,000	Interpreter & Translator \$35,000
Residential Advisor \$23,800	Meeting, Convention & Event Planner \$42,000


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# Career Pathway: *Human Services*



A career in human services requires certain skills and education depending on job requirements. Skills include preparing individuals that relates to family and human needs such as counseling and mental health services, family and community services, personal care, and consumer services.

## Exposure Pathways

### High School Courses

Introductory Psychology	KCC Child Growth and Development
Sociology	Exploring Teaching
AP Psychology	Behavior Management
Human Growth and Development	

### High School Clubs & Organizations

Best Buddies	TRY (Teens Reaching Youth)
SODA (Students Ok Without Drugs and Alcohol)	Student Ambassadors

### Venture Academics

Venture Behavioral Science (Intro to Psychology, Sociology, Rhetoric, Venture)

### Job Shadows & Internships

Activity Coordinator	Therapist Assistant
Event Planning	Waypoint Ambassador
Medical Clinic	Volunteer Coordinator

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## Experience Pathways

### College CTE Courses in High School

Marriage and Family	KCC Child Growth and Dev.
Social Problems	Exploring Teaching
Introductory to Sociology	Behavior Management
Introduction to Criminal Justice	

## Pursuit Pathways

### Certificates/Diplomas

Early Childhood Paraeducator	Early Childhood Education
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### Careers & Median Salary Information

Preschool Teacher \$26,000	Nanny \$19,300
Childcare Worker \$19,300	Fitness Trainer \$37,700

### Associate Degrees

Early Childhood Education	Human Services
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### Careers & Median Salary Information

Funeral Service Manager \$54,000
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### Bachelor Degrees

Social Work	Psychology
Elementary Education	



### Careers & Median Salary Information

Social & Community Service Manager \$54,300	Elementary Teacher \$52,000
Religious Activities & Education \$42,000	Social & Community Service Officer \$54,300



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## Career Pathway: *Information Technology*



A career in information technology requires certain skills and education depending on job requirements. Skills include building linkages in IT occupations for entry level, technical and professional careers related to the design, development, support, and management of hardware, software, multimedia, and systems integration services.

### Exposure Pathways

#### High School Courses

Computer Science Essentials	AP Computer Science
Computer Science Principles	PLTW Digital Electronics

#### High School Clubs & Organizations

Technology Club	Robotics
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#### Job Shadows & Internships

Quality Analyst	Software Development
Computer Technician	Technology Support
Information Tech	Web Development
IT/Help Desk	


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### Experience Pathways

#### College CTE Courses in High School

PLTW Computer Science Essentials	PLTW Computer Science Applications
PLTW Computer Science Principles	PLTW Digital Electronics

#### Kirkwood Career Academies

[Computer Software Development \(Coding\)](#)

### Pursuit Pathways

#### Certificates/Diplomas

Database Technologies	Web Design
Java Programming	Network Security
Mobile App Development	Network and System Administration
NET Programming	PC Technician
Healthcare IT Technician	Desktop Customer Service
Web Development	

#### Careers & Median Salary Information

Statement Clerk \$40,200	Loan Counselor \$33,000
Bill & Account Collector \$36,000	Bank Teller \$28,200

#### Associate Degrees

Computer Software Development	Web Technologies
Computer Support Specialist	Network and System Administration
Graphic Communication Technology	

#### Careers & Median Salary Information

Computer Operator \$46,200
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#### Bachelor Degrees

Technology	Business Analytics & Information Systems
Technology and Engineering Education	Technical Communication
Technology Management	

#### Careers & Median Salary Information

Computer & Info. Systems Manager \$123,600	Database Administrator \$80,000
Computer Hardware Engineer \$83,600	Software Developer \$88,000


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## Career Pathway: *Law*



A career in law, public safety, corrections, and security requires certain skills and education depending on job requirements. Skills include planning, managing, and providing legal, public safety, protective services, and homeland security, including professional and technical support services.

### Exposure Pathways

#### High School Courses

Government	AP Comparative Government
Law & the Constitution	Sociology
AP American Government	Media Information Literacy

#### Job Shadows & Internships

Legal Administrative Assistant	Receptionist & Security
Legal Support	Safety & Security
Police Officer	


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#### High School Clubs & Organizations

Debate Club	Republicans of Linn-Mar
Democrats of Linn-Mar	Model United Nations

### Experience Pathways

#### College CTE Courses in High School

Introduction to Criminal Justice	Introduction to Sociology
Social Problems	

#### Kirkwood Career Academies

[Emergency Medical Technician](#)

#### Venture Academics

Venture Civics (Government, State and Local Government, Venture)

### Pursuit Pathways

#### Certificates/Diplomas

Entry-Level Firefighter	Entry-Level Firefighter
Emergency Medical Technician	



#### Careers & Median Salary Information

Legal Secretary \$36,000	Fire Inspector \$70,000
Correctional Officer \$50,700	Fire Fighter \$67,600

#### Associate Degrees

Criminal Justice	Paralegal Studies
Entry-Level Firefighter	Paramedic



#### Careers & Median Salary Information

Paralegal  
\$44,000

#### Bachelor Degrees

Public Health	Linguistics
Criminology	



#### Careers & Median Salary Information

Private Detective \$75,000	Intelligence Analyst \$58,000
Loss Prevention Manager \$63,400	Arbitrator, Mediator & Conciliator \$81,500



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## Career Pathway: *Marketing*



A career in marketing requires certain skills and education depending on job requirements. Skills such as anticipating, planning, managing, and performing marketing activities to reach organizational objectives such as advertising and promotion techniques, business communication, and business development.

### Exposure Pathways

#### High School Courses

Personal Finance	Business/Consumer Law
Accounting	Entrepreneurship
Advanced Accounting	Agriculture Business Foundations
Economics	Graphics One
AP Microeconomics	Graphics Two
theROARstore	Introduction to Business
Marketing	

#### Job Shadows & Internships

Business Development & Event Promotions

Market Research Analyst

Marketing & Communications



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#### High School Clubs & Organizations

Future Business Leaders of America

### Experience Pathways

#### College CTE Courses in High School

Introduction to Business      Personal Finance

#### Venture Academics

Venture Marketing Essentials (Marketing, Sports and Entertainment Marketing, Venture)

Venture Advanced Business (Business/Consumer Law, Entrepreneurship, Intro to College Writing, Venture)

Venture Digital Design & Communications (Graphics One, Graphics Two, Digital Photography, Venture)

### Pursuit Pathways

#### Certificates/Diplomas

Retail Marketing	Social Media Marketing
Sales	Office Assistant



#### Careers & Median Salary Information

Demonstrators & Product Promoters	Parts Salespersons
\$24,000	\$34,000
Real Estate Sales Agents	Telemarketers
\$48,000	\$28,600

#### Associate Degrees

Business Administration: Marketing Management	Apparel Merchandising
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#### Careers & Median Salary Information

Procurement Clerks	Assessors
\$42,000	\$73,000

#### Bachelor Degrees

Marketing	Communication Studies
Advertising and Digital Media	



#### Careers & Median Salary Information

Online Merchants	Sales Engineers
\$59,000	\$87,000
Sales Managers	Appraisers, Real Estate
\$98,000	\$73,000



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## Career Pathway: *Manufacturing*



A career in manufacturing requires certain skills and education depending on job requirements. Skills include planning, managing, and performing the process of materials into intermediate or final products and related professional and technical support activities such as production planning and control, maintenance, and manufacturing/process engineering.

### Exposure Pathways

#### High School Courses

PLTW Computer Integrated Man.	PLTW Principles of Engineering
Computer Aided Drafting	Woods
Metals	Digital Electronics
PLTW Intro to Engineering	Cabinetmaking

#### Job Shadows & Internships

Welding



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#### High School Clubs & Organizations

Robotics

### Experience Pathways

#### College CTE Courses in High School

Intro to 3D Printing  
Intro to Parametric Solid Modeling

#### Kirkwood Career Academies

[Advanced Manufacturing with Robotics & Welding](#)

### Pursuit Pathways

#### Certificates/Diplomas

Industrial Robotics Certificate	CAD/Mechanical Engineering Tec.
Entry-Level Welding	HVAC Installer
CNC Machining Technology	Electromechanical Technology
Electronics Engineering Technology	Plumbing Pre-Apprenticeship

#### Careers & Median Salary Information

Radio Mechanic \$77,000	Industrial Machinery Mechanic \$53,300
Elevator Installer \$57,200	Tool and Die Makers \$45,000

#### Associate Degrees

Advanced Manufacturing & Robotics Tech.	Electronics Engineering Tech.
Advanced Welding Tech.	CAD/Mechanical Engineering Tech.
Automation & Instrumentation Tech.	Energy Production & Distribution Tech.
CNC Machining Tech.	Industrial Maintenance

#### Careers & Median Salary Information

Robotic Technician \$49,000	Methane/Landfill Gas Generation System Technicians \$55,000
Computer, Automated Teller, and Office Machine Repairer \$36,000	

#### Bachelor Degrees

Aerospace Engineering	Manufacturing Technology
Mechanical Engineering	

#### Careers & Median Salary Information

Industrial Production Manager \$91,000	Industrial Engineers \$79,000
Quality Control Systems Managers \$91,000	Environmental Engineering Technicians \$41,000



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## Career Pathway: *Science, Technology, Engineering & Math*



A career in science, technology, engineering, and mathematics requires certain skills and education depending on job requirements. Skills include providing, planning, and managing therapeutic services, diagnostic services, health informatics, support services, and biotechnology research and development.

### Exposure Pathways

#### High School Courses

Algebra 2	Physics	PLTW Digital Electronics	Food Science & Safety
Pre-Calculus	AP Chemistry	PLTW Engineering Design & Development	Animal and Plant Biotechnology
AP Calculus AB	AP Biology	Mechanical Drawing	Agricultural Research & Development
AP Calculus BC	AP Physics	Introduction to Agriculture, Food & Ntrl Resources	
AP Statistics	Anatomy & Physiology	Aquaculture Science	
Astronomy	Geology	Principles of Agricultural Science-Animal	
Meteorology	PLTW Intro to Engineering	Principles of Agricultural Science-Plant	
Bioethics	PLTW Principles of Engineering	Natural Resources and Ecology	
AP Envmntl Science	PLTW Aerospace Engineering	Environmental Science Issues	
Chemistry 1	PLTW Computer Integrated Mfg		
Earth & Space Science	PLTW Civil Engineering & Architect Dsgn		

#### Job Shadows & Internships

Analytical Chemistry Research	Conservation Biology Research
CAD Design	Organic Chemistry Assistant
Chemistry Lab	Wastewater Plant Operations & Maintenance
Civil & Electrical Engineering	



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#### High School Clubs & Organizations

Robotics	Science Club
	Math Club

#### Venture Academics

Venture Earth Science (Earth Science, Venture Earth Science)  
 Venture Life Science (General Biology, Venture Life Science)  
 Venture Environmental Science (AP Environmental Science, Venture)  
 Venture Biomedical Science (PLTW Biomedical Science, Venture Biomedical Science)

### Experience Pathways

#### College CTE Courses in High School

Math and Society	Human Anatomy I
Nutrition	Human Anatomy II

#### Kirkwood Career Academies

<a href="#">Adv. Mfg w/ Robotics &amp; Welding</a>	<a href="#">Computer Programming &amp; Web Development</a>
<a href="#">Architectural &amp; Engineering Design (Pre-Apprenticeship)</a>	<a href="#">Pre-Professional Health Careers</a>

### Pursuit Pathways

#### Certificates/Diplomas

Industrial Robotics	Network Security
Database Technologies	Network & System Admin.
Java Programming	PC Technician
Mobile App Development	CAD/Mechanical Eng. Tech.
.NET Programming	Desktop Customer Service
Healthcare IT Technician	Electromechanical Tech.



#### Careers & Median Salary Information

Civil Engineering Technicians \$50,000	Food Science Technicians \$46,000
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2023-2024

## Career Pathway: *Science, Technology, Engineering & Math*

### Associate Degrees

Advanced Manufacturing & Robotic Tech.	Exercise Science & Wellness
CAD/Mechanical Engineering Tech.	Industrial Maintenance
Computer Software Development	Network & System Administration
Computer Support Specialist	Water Environmental Tech.
Energy Production & Distribution	

### Careers & Median Salary Information

Chemical Technicians \$41,500	Fuel Cell Technicians \$54,000
Surveying Technicians \$51,000	

### Bachelor Degrees

Biochemistry	Applied Physics
Actuarial Science	Civil Engineering
Seed Science	Industrial Technology
Ag Engineering	Software Engineering
Electrical Engineering	Graphic Technology
Microbiology	Bio Medical Engineering
Physics	Computer Engineering
Geo Science	Management and Information Systems,
Ag and Life Sciences Education	Statistics
Environmental Science	Military Science
Nutritional Science	Business Analytics & Information Systems
Biochemistry	Construction Engineering
Technology and Engineering Education	Materials Engineering
Animal Science	Technical Communication
Family & Consumer Science Education	Movement and Exercise Science
Physics	Mortuary Science
Communication Sciences & Disorder	Culinary Food Science
Technology Management	Mathematics
Biological Systems Engineering	Biology
Food Science	Science Education
Political Science	Nuclear Medicine Technology
Computer Science	Dairy Science
Technology	Mechanical Engineering
Chemical Engineering	Chemistry
Industrial Engineering	Social Science
Seed Science	Radiation Sciences
Earth Science	

### Careers & Median Salary Information

Chemical Engineers \$88,000	Civil Engineers \$76,000
Chemists \$79,000	Marine Engineers \$64,000
Materials Engineers \$75,400	
Biochemical Engineers \$71,000	

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# Career Pathway: *Transportation*



A career in transportation, distribution, and logistics requires certain skills and education depending on job requirements. Skills include planning, management, and movement of people, materials, and goods by road, pipeline, air, rail, and water and related professional support services such as transportation infrastructure planning and management, logistic services, mobile equipment, and facility maintenance.

## Exposure Pathways

### High School Courses

Mechanical Drawing  
Metals

### Job Shadows & Internships

Auto Mechanic Assistant      Flight Operations  
Diesel Technician



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### High School Clubs & Organizations

Robotics

## Experience Pathways

### Kirkwood Career Academies

[Automotive Technology & Collision Repair](#)

## Pursuit Pathways

### Certificates/Diplomas

Automotive Collision Repair

### Careers & Median Salary Information

Transportation Vehicle, Equipment and Systems Inspectors \$83,000	Cargo and Freight Agents \$33,000 Traffic Technicians \$31,000
Customs Brokers \$59,000	

### Associate Degrees

Automotive Technology      Diesel Truck Technology  
Diesel Ag Technology

### Careers & Median Salary Information

Aviation Inspectors \$83,000	Signal and Track Switch Repairers \$36,000
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### Bachelor Degrees

Finance      Supply Chain Management  
Business Administration

### Careers & Median Salary Information

Transportation Managers \$81,000	Logistics Managers \$81,000
Storage and Distribution Managers \$81,000	Airline Pilots, Copilots, and Flight Engineers \$76,000



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