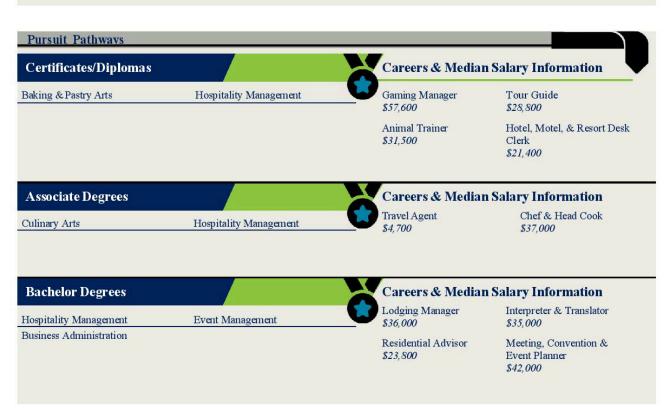
# Career Pathway: Hospitality & Tourism





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.

High School Courses		Job Shadows& In	ternships
Culinary Basics	ProStart Two	Cafe Line Cook	Special Events
Foundations of Living	Food Science and Safety	Chef Assistant	Travel Agent
Experience Pathways			Learn more & a
		•	
College CTE Course	s in High School		









# 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

Learn more & apply

## **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

Careers & Median Salary Information

Preschool Teacher Nanny \$26,000 \$19,300

Childcare Worker Fitness Trainer \$19,300 \$37,700

#### Associate Degrees

Early Childhood Education Human Services

# Car

#### **Careers & Median Salary Information**

Funeral Service Manager \$54,000

# **Bachelor Degrees**

Social Work Psychology

Elementary Education



#### Careers & Median Salary Information

Social & Community Service Manager

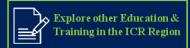
\$54,300

Religious Activities & Education \$42,000

Elementary Teacher \$52,000

Social & Community Service Officer \$54,300







# 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

## Job Shadows & Internships

 Quality Analyst
 Software Development

 Computer Technician
 Technology Support

 Information Tech
 Web Development

IT/Help Desk



#### **Experience Pathways**

#### College CTE Coursesin 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 Loan Counselor \$40,200 \$33,000

Bill & Account Collector Bank Teller \$36,000 \$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

#### **Bachelor Degrees**

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

Technology Management

#### **Careers & Median Salary Information**

Computer & Info. Systems Manger \$123,600 Database Administrator \$80,000

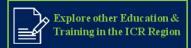
Software Developer

Computer Hardware Engineer

\$85,600

\$88,000







# 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



# High School Clubs & Organizations

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

#### **Experience Pathways**

#### College CTE Coursesin 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 Fire Inspector \$36,000 \$70,000

Correctional Officer Fire Fighter \$50,700 \$67,600

# Associate Degrees

Paralegal Studies

Criminal Justice Entry-Level Firefighter Paramedic

# Careers & Median Salary Information Paralegal \$44,000

# Careers & Median Salary Information

Private Detective \$75,000

Intelligence Analyst \$58,000

Loss Prevention Manager \$63,400

Arbitrator, Mediator & Conciliator

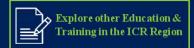
\$81,500

# **Bachelor Degrees**

Public Health

Criminology





Linguistics



# 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**

riigh School Courses	$h_0$
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 & Interships

Business Development & Event Promotions

Market Research Analyst Marketing & Communications



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

Social Media Marketing Retail Marketing Sales Office Assistant

# Careers & Median Salary Information

Demonstrators & Product Parts Salespersons Promoters \$24,000

\$34,000

Real Estate Sales Agents

Telemarketers \$28,600

\$48,000

# **Associate Degrees**

Business Administration: Marketing Apparel Merchandising

Management

# Careers & Median Salary Information

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

# **Bachelor Degrees**

Communication Studies

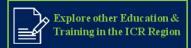
Advertising and Digital Media

#### Careers & Median Salary Information

Online Merchants Sales Engineers \$59,000 \$87,000

Sales Managers Appraisers, Real Estate \$98,000







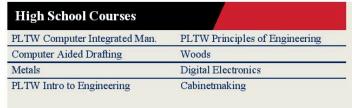
# Career Pathway: Manufacturing





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.

	Ex	posure	Patl	ıways
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## Job Shadows & Internships

Welding



High School Clubs & Organizations

Robotics

#### **Experience Pathways**

#### College CTE Coursesin 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 Plumbing Pre-Apprenticeship

Electronics Engineering Technology

# Careers & Median Salary Information

Radio Mechanic \$77,000

Elevator Installer \$57,200

Industrial Machinery Mechanic \$53,300

Tool and Die Makers

## **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

Computer, Automated Teller, and Office Machine Repairer \$36,000

Methane/Landfill Gas Generation System Technicians \$55,000

#### **Bachelor Degrees**

Mechanical Engineering

Aerospace Engineering Manufacturing Technology Careers & Median Salary Information Industrial Production

Manager \$91,000

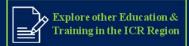
Quality Control Systems Managers \$91,000

Industrial Engineers

\$79,000

Environmental Engineering Technicians \$41,000







# 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.

<b>Exposure Pathw</b>	ays		
High School Co	urses		
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 & Developmen
AP Calculus BC	AP Physics	Introduction to Agriculture, Food & Ntrl Reso	urces
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	e PLTW Civil Engineering & Archite	ect Dsgn	

# Job Shadows & Internships

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



# High School Clubs & Organizations

Robotics	Science Club	
S.	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**

Adv.Mnfg w/ Robotics & Welding
Architectural & Engineering
Design (Pre-Apprenticeship)

Development

Pre-Professional Health Careers

# **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

# Career Pathway: Science, Technology, Engineering & Math

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

# Careers & Median Salary Information

Chemical Technicians \$41,500

Fuel Cell Technicians \$54,000

Surveying Technicians \$51,000

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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 Systms
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

\$70,000

\$79,000

Marine Engineers \$64,000

Materials Engineers \$75,400

**Biochemical Engineers** 

\$71,000



# 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



# 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

\$33,000 \$83,000

Traffic Technicians \$31,000

Cargo and Freight Agents

Customs Brokers \$59,000

# Associate Degrees

Diesel Ag Technology

Automotive Technology

Diesel Truck Technology

# Careers & Median Salary Information Aviation Inspectors

\$83,000

Signal and Track Switch Repairers \$36,000

# **Bachelor Degrees**

Supply Chain Management

**Business Administration** 

# **Careers & Median Salary Information**

Transportation Managers

Logistics Managers \$81,000

\$81,000

Storage and Distribution

Airline Pilots, Copilots, and

Managers

\$81,000

Flight Engineers

\$76,000

