2024 KSDE CTE Resource Guide





Kansas leads the world in the success of each student.

2024 KSDE CTE Resource Guide

The Kansas State Department of Education (KSDE) Career and Technical Education (CTE) Resource Guide is a comprehensive guide containing relevant information regarding career opportunities available for Kansas students to explore.

Career and Technical Education is organized into educational activities that offer a sequence of courses. This provides individuals with the rigorous academic content and relevant technical knowledge and skills needed to prepare for further education and careers in current or emerging professions, which may include high-skill, highwage or in-demand industry sectors or occupations.

In Kansas, we focus on seven industries. Throughout this guide they are consistently identified by colors and icons. Occupations are then organized around knowledge and skills that have common characteristics and job duties, known as career clusters. Kansas identifies a total of 16 broad career clusters. Additionally, 36 career pathways represent the career, education and training options available to students in each of these industries. On the next page you will find the "Kansas CTE Sunflower" image, along with a list of industries listed in bold, and the clusters italicized with the pathways listed below each of them.



OVERALL RESOURCES

- 2024-2025 Career Cluster Handbook
- CTE Course Competencies and Indicators
- Today's Occupations: High Demand, High Wage Jobs < Bachelor's (ks.gov)
- Kansas Labor Information Center (KLIC) -Kansas Career Posters (ks.gov)
- My Next Move
- O*NET OnLine (onetonline.org)
- K-12: Student Resources: U.S. Bureau of Labor Statistics (bls.gov)

POSTSECONDARY CREDITS

Under the Excel in Career Technical Education Initiative, Kansas high school students qualify for state-funded college tuition in approved technical courses offered by Kansas technical and community colleges.

- <u>Excel in CTE Initiative (SB155)</u> kansasregents.org
- <u>Tiered Technical Courses at Kansas Community</u> <u>and Technical Colleges</u> (ksde.org)

POSTSECONDARY PROGRAMS

- Kansas DegreeStats Kansas Board of Regents (ksdegreestats.org)
- <u>Degree Stats Lesson</u> (ksde.org)
- K-TIP Report (kansasregents.org)
- Program Alignment (kansasregents.org)
- Kansas Post-Secondary Exploration Guide (ksde.org)

FAMILY & CONSUMER SCIENCES

Hospitality & Tourism

- Restaurant & Event Management
- Travel & Tourism

Human Services

- Early Childhood Development & Services
- Family, Community & Consumer Services
- Fashion, Apparel, Interior Design (FAID)

PUBLIC SERVICES

Government & Public Administration

- Government & Public
- Administration

Education & Training

Teaching/Training

Law, Public Safety & Security

- Corrections, Security Law & Law
- Enforcement Services
- Emergency & Fire
- Management Services

MEDIA & TECHNOLOGY

Arts, AV Technology & Communications

- Graphic Design
- Digital Media

Information Technology

- Programming & Software Development
- Information Support & Services
- Network Systems
- Web & Digital Communications

HEALTH

Health & Biosciences

- Biochemistry
- Biomedical
- Health Science

<u>DESIGN, PRODUCTION</u> & REPAIR

Architecture & Construction

• Construction & Design

Engineering

- Energy
- Engineering & Applied Mathematics
- Aviation Production

Transportation

- Mobile Equipment Maintenance
- Aviation Maintenance

Manufacturing

Manufacturing

AGRICULTURE

Agriculture, Food & Natural Resources

- Plant Systems
- Animal Science
- Biotechnology in Agriculture
- Comprehensive Agricultural Science
- Agribusiness Systems
- Natural Resources & Environmental Services
- Power, Structural & Technical Systems
- Fower, Structural & Technical Systems
 Food Products & Processing Systems

BUSINESS

Marketing

Marketing

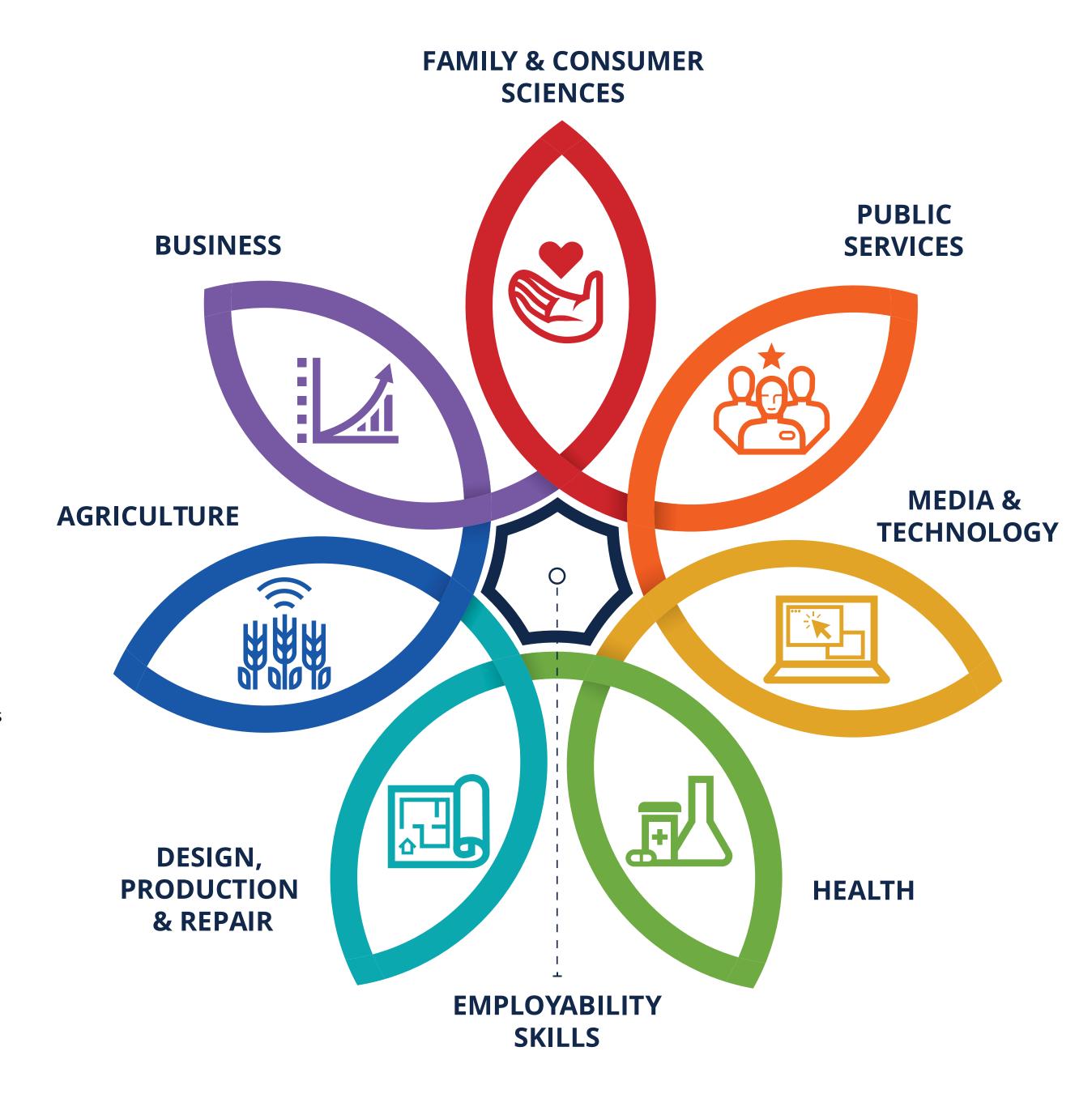
Finance

• Business Finance

Business Management &

Administration

Business Management & Entrepreneurship





Family & Consumer Sciences

Hospitality & Tourism Human Services



FAMILY & CONSUMER SCIENCES INDUSTRY

Hospitality & Tourism

Travel & Tourism | Restaurant & Event Management

| C | ccupations & Degrees | Median Annual Wage |
|--------------------------------|--|-----------------------|
| Short-Term On-The-Job Training | | |
| | Fast Food & Counter Workers | \$23,240 |
| | Waiters & Waitresses | \$27,260 |
| | Janitors & Cleaners, Except Maids & Housekeeping Cleaners | \$29,120 |
| Н | S. Diploma & Short to Moderate-Term On-The-Job Training | |
| | | +0= 050 |
| | Bakers | \$25,260 |
| | | \$25,260 \$27,250 |
| | Bakers | |
| | Bakers Hotel, Motel, & Resort Desk Clerks | \$27,250 |
| | Bakers Hotel, Motel, & Resort Desk Clerks Cooks, Restaurant | \$27,250 |
| Н. | Bakers Hotel, Motel, & Resort Desk Clerks Cooks, Restaurant S. Diploma & Work Experience First-Line Supervisors of Housekeeping | \$27,250 \$28,600 |

Travel & Tourism

Pathway

INTRODUCTORY LEVEL COURSES

- Business Essentials
- Introduction to Family and Consumer Sciences
- Career and Life Planning

TECHNICAL LEVEL COURSES

- Entrepreneurship
- Principles of Marketing
- Culinary Essentials
- Foundations of Hospitality and Lodging
- Foundations of Travel and Tourism
- Nutrition and Wellness
- Event Planning and Management

APPLICATION LEVEL COURSES

- Hospitality and Lodging Management
- Community Connections
- Career Connections

OCCUPATIONS

(ks.gov)

First-Line Supervisors of Housekeeping and Janitorial Workers

Convention Services Manager

Events Manager/Planner

POS for web.indd (careertech.org)

| Occupations & Degrees | Median Annual Wage |
|--|--------------------------------|
| H.S. Diploma & Work Experienc | re |
| * First-Line Supervisors of Housekeeping | \$42,020 |
| * High Demand, High Wage | nation (I/LIC) Conson Destroys |

HIGH SCHOOL ASSESSMENTS, CREDENTIALS, OR CERTIFICATIONS

CareerSafe: OSHA Safety Certification (10 Hour)

policies and regulations.

NC3: Data Analytics/Harnessing the Power of Data

POSTSECONDARY CREDITS

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- Excel in CTE Initiative (SB155) kansasregents.org
- <u>Tiered Technical Courses ksde.org at Kansas</u> <u>Community and Technical Colleges</u>

POSTSECONDARY PROGRAMS

- Kansas DegreeStats Kansas Board of Regents ksdegreestats.org
- Degree Stats Lesson (ksde.org)
- K-TIP Report (kansasregents.org)
- Program Alignment (kansasregents.org)
- Kansas Post-Secondary Exploration Guide (ksde.org)

RESOURCES

This pathway prepares individuals to serve as general managers and directors

arrangements and promotion and the provision of traveler facilities. It includes

lodging facilities, food services, and recreation facilities industries; hospitality

marketing strategies; hospitality planning; management and coordination of

franchise and unit operations; business management; accounting and financial

management; hospitality transportation and logistics; and hospitality industry

of hospitality operations on a system-wide basis, including both travel

instruction in principles of operations in the travel and tourism, hotel and

- CTE Course Competencies and Indicators (ksde.org)
- Cool Careers Episode 19: Restaurant Manager
- Restaurant Manager | HirePaths Help Your Kansas Kid Explore Careers
- Kansas Labor Information Center (KLIC) -Kansas Career Posters (ks.gov)
- <u>Today's Occupations: High Demand, High</u> <u>Wage Jobs < Bachelor's (ks.gov)</u>
- <u>Careers in Hospitality & Tourism at My Next</u>
 <u>Move</u>

STUDENT ORGANIZATION

Family Career and Community Leaders of America, Kansas (FCCLA)



Kansas DECA



Restaurant & Event Management

Pathway

INTRODUCTORY LEVEL COURSES

- Business Essentials
- Introduction to Family and Consumer Sciences
- Career and Life Planning

TECHNICAL LEVEL COURSES

- Culinary Essentials
- Nutrition and Wellness

Event Planning and Management Strand

- Foundations of Travel and Tourism
- Event Planning and Management Culinary Arts and Management Strand
- Culinary Arts I
- Culinary Arts II
- Baking and Pastry I
- Baking and Pastry II
- Food Science
- Event Planning and Management Additional
- Entrepreneurship
- Principles of Marketing

APPLICATION LEVEL COURSES

Event Planning and Management Strand

- Community Connections
- Career Connections
- Applied Business Development
 Culinary Arts and Management Strand
- Culinary Workplace Experience
- Community Connections
- Career Connections

OCCUPATIONS

First-Line Supervisors of Housekeeping and Janitorial Workers

Chefs and Head Cooks

Food Service Managers

| 0 | ccupations & Degrees | Median Annual Wage |
|---|---|-----------------------|
| Н | .S. Diploma & Work Experience | |
| * | First-Line Supervisors of Housekeeping and Janitorial Workers | \$42,020 |
| * | Chefs and Head Cooks | \$49,120 |
| * | Food Service Managers | \$61,480 |

* High Demand, High Wage

Source: <u>Kansas Labor Information Center (KLIC)</u> - <u>Career Posters (ks.gov)</u>

This pathway prepares individuals to plan, supervise, and manage food and beverage preparation and service operations, restaurant facilities, and catering services. It includes instruction in the food/beverage industry operations, cost control, purchasing and storage, business administration, logistics, personnel management, culinary arts, restaurant and menu planning, executive chef functions, event planning and management, health and safety, insurance, and applicable law and regulations.

HIGH SCHOOL ASSESSMENTS, CREDENTIALS, OR CERTIFICATIONS

- AAFCS Pre-Pac: Broad Field Family & Consumer Sciences
- AAFCS (pre-PAC): Culinary Arts
- CareerSafe: OSHA Safety Certification (10 Hour)
- NC3: Data Analytics/Harnessing the Power of Data
- KS Restaurant & Hospitality Association: Pro-Start
- KS Restaurant & Hospitality: ServSafe Food Handlers

POSTSECONDARY ASSESSMENTS, CREDENTIALS, OR CERTIFICATIONS

KS Restaurant & Hospitality: ServSafe – Manager

POSTSECONDARY CREDITS

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- <u>Tiered Technical Courses ksde.org at Kansas Community</u> and <u>Technical Colleges</u>

POSTSECONDARY PROGRAMS

- Kansas DegreeStats Kansas Board of Regents ksdegreestats.org
- <u>Degree Stats Lesson (ksde.org)</u>
- K-TIP Report (kansasregents.org)
- <u>Program Alignment (kansasregents.org)</u>
- Kansas Post-Secondary Exploration Guide (ksde.org)

RESOURCES

- CTE Course Competencies and Indicators (ksde.org)
- Cool Careers Episode 19: Restaurant Manager
- Kansas Labor Information Center (KLIC) -Kansas Career Posters (ks.gov)
- <u>Today's Occupations: High Demand, High Wage Jobs < Bachelor's (ks.gov)</u>
- Careers in Hospitality & Tourism at My Next Move

STUDENT ORGANIZATION

Family Career and Community Leaders of America, Kansas (FCCLA)



Kansas DECA





FAMILY & CONSUMER SCIENCES INDUSTRY

Human Services

Early Childhood Development & Services | Family, Community & Consumer Services | Fashion, Apparel, Interior Design (FAID)

| 0 | ccupations & Degrees | Median Annual Wage |
|----|--|-----------------------|
| | S. Diploma & Short to Moderate-Term n-The-Job Training | |
| | Childcare Workers | \$23,440 |
| | Social & Human Service Assistants | \$36,190 |
| | | |
| Вс | ichelor's Degree | |
| * | Child, Family, and School Social Workers | \$46,740 |
| * | Substance Abuse, Behavioral Disorder, & Mental Health Counselors | \$50,360 |
| | | |
| Mc | ster's Degree & Internship/Residency | |
| * | Healthcare Social Workers | \$60,310 |
| 1 | igh Demand, High Wage rce: <u>Kansas Labor Information Center (KLIC) - Career Posters (ks.gov</u> | 2) |

Early Childhood Development & Services

This pathway prepares individuals to be primary providers of home, family, residential, or institutional-based child care services. It includes instruction in child growth and development, nutrition, recreation, planning and supervision of play and learning activities, child abuse and neglect prevention, parent-child relationships, and applicable legal and administrative requirements.



INTRODUCTORY LEVEL COURSES

- Introduction to Family and Consumer Sciences
- Career and Life Planning

TECHNICAL LEVEL COURSES

- Leadership Service in Action
 Strand 1
- Orientation to Early Childhood Development
- Foundations to Early Childhood Development
 Strand 2
- Foundations to Early Childhood Development
- Family Studies
- Human Growth and Development Early Years

APPLICATION LEVEL COURSES

- Early Childhood Applications
- Community Connections
- Career Connections

OCCUPATIONS

Childcare Workers

| Occupations & Degrees | Median Annual Wage | |
|---|-------------------------------|--|
| H.S. Diploma & Short to Moderate-Term On-The-Job Training | | |
| Childcare Workers | \$23,440 | |
| Source: Kansas Labor Information Co | enter (KLIC) - Career Posters | |

HIGH SCHOOL ASSESSMENTS, CREDENTIALS, OR CERTIFICATIONS

- AAFCS Pre Pac: Broad Field Family & Consumer Sciences
- AAFCS (pre-PAC): Early Childhood Education
- American Red Cross: Cardio Pulmonary Resuscitation (CPR)/Infant/ Toddler CPR
- CareerSafe: OSHA Safety Certification (10 Hour)
- KCCTO: Foundations for Safe & Healthy Early Care Facilities: Module 1 (4 certifications)
- KCCTO: Foundations for Safe & Healthy Early Care Facilities: Module 2 (6 certifications)
- Council for Professional Recognition: Child Development Associates (CDA)
- NC3: Data Analytics/Harnessing the Power of Data

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- <u>Tiered Technical Courses ksde.org at Kansas Community and Technical Colleges</u>

POSTSECONDARY PROGRAMS

- Kansas DegreeStats Kansas Board of Regents ksdegreestats.org
- Degree Stats Lesson (ksde.org)
- K-TIP Report (kansasregents.org)
- Program Alignment (kansasregents.org)
- Kansas Post-Secondary Exploration Guide (ksde.org)

RESOURCES

CTE Course Competencies and Indicators (ksde.org)

<u>Early Childhood Teacher | HirePaths</u> <u>- Help Your Kansas Kid Explore</u> <u>Careers</u>

Cool Careers - Episode 17: Early Childhood Teacher

Kansas Labor Information Center (KLIC) - Kansas Career Posters (ks. gov)

Today's Occupations: High Demand,
High Wage Jobs < Bachelor's (ks.gov)

Careers in Human Services at My Next Move

STUDENT ORGANIZATION



HUMAN SERVICES

Family, Community & Consumer Services

This pathway prepares individuals for employment in careers that relate to families and human needs such as counseling and mental health services, family and community services, personal care, and consumer services.



INTRODUCTORY LEVEL COURSES

- Introduction to Family and Consumer Sciences
- Career and Life Planning

Pathway

TECHNICAL LEVEL COURSES

- Culinary Essentials
- Nutrition and Wellness
- Family Studies
- Leadership Service in Action
- Relationships and Personal Development
- Human Growth and Development Early Years
- Lifespan Development

APPLICATION LEVEL COURSES

- Community Connections
- Career Connections

OCCUPATIONS

- Adult Daycare Director
- Childcare Workers
- Child, family, or school social worker
- Community Service Director
- Director of childcare facility
- Geriatric services worker
- Sociologist
- Social services worker

- Personal or home care aide
- Leisure activities counselor
- Recreation worker
- Consumer credit counselor
- Personal financial advisor
- Social & Human Service Assistants

Human Services | FCCLA (fcclainc.org)

| 00 | ccupations & Degrees | Median Annual Wage |
|----|--|-----------------------|
| | . Diploma & Short to Moderate-Term The-Job Training | |
| | Childcare Workers | \$23,440 |
| | Social & Human Service Assistants | \$36,190 |
| Ва | chelor's Degree | |
| * | Child, Family, and School Social Workers | \$46,740 |
| * | Substance Abuse, Behavioral Disorder, & Mental Health Counselors | \$50,360 |
| Ma | ster's Degree & Internship/Residency | |
| * | Healthcare Social Workers | \$60,310 |

^{*} High Demand, High Wage
Source: Kansas Labor Information Center (KLIC) - Career Posters (ks.gov)

HIGH SCHOOL ASSESSMENTS, CREDENTIALS, OR CERTIFICATIONS

- AAFCS Pre Pac: Broad Field Family & Consumer Sciences
- AAFCS (pre-PAC): Family & Community Services
- AAFCS (pre-PAC): Nutrition, Food & Wellness
- AAFCS (pre-PAC): Personal & Family Finances
- CareerSafe: OSHA Cyber Safety Awareness Training - Level 2
- CareerSafe: OSHA Safety Certification (10 Hour)
- NC3: Data Analytics/Harnessing the Power of Data

POSTSECONDARY CREDITS

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 <u>Community and Technical Colleges</u>

POSTSECONDARY PROGRAMS

- Kansas DegreeStats Kansas Board of Regents ksdegreestats.org
- Degree Stats Lesson (ksde.org)
- K-TIP Report (kansasregents.org)
- Program Alignment (kansasregents.org)
- Kansas Post-Secondary Exploration Guide (ksde. org)

RESOURCES

- CTE Course Competencies and Indicators (ksde.org)
- Kansas Labor Information Center (KLIC) - Kansas Career Posters (ks.gov)
- <u>Today's Occupations: High</u>
 <u>Demand, High Wage Jobs < Bachelor's (ks.gov)</u>
- <u>Careers in Human Services at My</u>
 Next Move

STUDENT ORGANIZATION



FAMILY & CONSUMER SCIENCES INDUSTRY

HUMAN SERVICES

Fashion, Apparel, Interior Design (FAID)

Pathway

INTRODUCTORY LEVEL COURSES

- Introduction to Family and Consumer Sciences
- Career and Life Planning
- Drafting
- Introduction to Drafting

TECHNICAL LEVEL COURSES

- Essentials of FAID
- FAID Merchandising and Entrepreneurship

Fashion and Apparel Design (Strand A)

- Apparel Production I
- Apparel Production II
- Fashion Trends

Interior Design (Strand B)

- Interior Design I
- Interior Design II
- Architecture Design

APPLICATION LEVEL COURSES

Strands A and B

- Career Connections
- FAID Studio

OCCUPATIONS

- Interior Designers
- Textile Designers
- Fashion Designers

HIGH SCHOOL ASSESSMENTS, CREDENTIALS, OR CERTIFICATIONS

- AAFCS (pre-PAC): Fashion, Textiles & Apparel
- AAFCS (pre-PAC): Interior Design Fundamentals
- CareerSafe: OSHA Safety Certification (10 Hour)
- NC3: Data Analytics/Harnessing the Power of Data

This pathway prepares individuals in the areas of designing, producing and exhibiting apparel and textiles.



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- <u>Tiered Technical Courses ksde.org at Kansas</u>
 <u>Community and Technical Colleges</u>

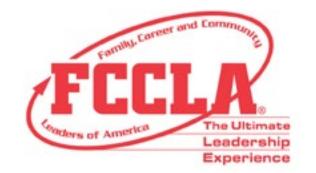
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- K-TIP Report (kansasregents.org)
- Program Alignment (kansasregents.org)
- Kansas Post-Secondary Exploration Guide (ksde. org)

RESOURCES

- CTE Course Competencies and Indicators (ksde.org)
- Kansas Labor Information Center (KLIC) - Kansas Career Posters (ks.gov)
- <u>Today's Occupations: High</u>
 <u>Demand, High Wage Jobs < Bachelor's (ks.gov)</u>
- <u>Careers in Human Services at My</u>
 <u>Next Move</u>

STUDENT ORGANIZATION





Public Services

Government & Public Administration Education & Training Law, Public Safety & Security



PUBLIC SERVICES INDUSTRY

Government & Public Administration

Government & Public Administration

| С | Occupations & Degrees | Median Annual Wage |
|----|--|-----------------------|
| Н. | S. Diploma & Short to Long-Term On-The-Job Training | |
| | Court, Municipal, and License Clerks | \$40,580 |
| * | Construction and Building Inspectors | \$61,550 |
| | | |
| Bo | achelor's Degree | |
| * | Occupational Health and Safety Specialists | \$69,540 |
| | | 1 |
| M | aster's Degree & Internship/Residency | |
| | | |
| | igh Demand, High Wage urce: <u>Kansas Labor Information Center (KLIC) - Career Posters (ks.gov)</u> | |

Government & Public Administration

Pathway

INTRODUCTORY LEVEL COURSES

- Introduction to Government and Public Administration
- Career and Life Planning
- U.S. History
- AP U.S. History
- American Government
- AP American Government

TECHNICAL LEVEL COURSES

- Government and Public Administration Fundamentals
- IT for Service Professions
- Lifespan Development

Public Administration Strand

- Business Management
- Business Law
- Accounting
- Business Economics

Pre-Law Legal Assistance Strand

- Government and Public Media Relations
- Business Economics
- Business Law
- Practical Law

APPLICATION LEVEL COURSES

- Foundations in Law
- Career Connections
- Governance Applications
- Legal Proceedings

| Annual Wage |
|--------------------|
| |
| \$40,580 |
| \$61,550 |
| \$69,540 |
| |
| |

This pathway prepares individuals to serve as managers in the executive arm of local, state, and federal government and focuses on the systematic study of executive organization and management. It includes instruction in the roles, development, and principles of public administration; the management of public policy; executivelegislative relations; public budgetary processes and financial management; administrative law; public personnel management; professional ethics; and research methods.

HIGH SCHOOL ASSESSMENTS, **CREDENTIALS, OR CERTIFICATIONS**

NC3: Data Analytics/Harnessing the Power of Data

POSTSECONDARY CREDITS

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- Tiered Technical Courses ksde.org at Kansas **Community and Technical Colleges**

POSTSECONDARY PROGRAMS

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- Degree Stats Lesson (ksde.org)
- K-TIP Report (kansasregents.org)
- Program Alignment (kansasregents.org)
- Kansas Post-Secondary Exploration Guide (ksde. org)

RESOURCES

- CTE Course Competencies and **Indicators** (ksde.org)
- Kansas Labor Information Center (KLIC) - Kansas Career Posters (ks.gov)
- Today's Occupations: High <u>Demand, High Wage Jobs <</u> Bachelor's (ks.gov)
- Careers in Government & Public Administration at My Next Move
- Kansas Mock Trial (ksbar.org)



PUBLIC SERVICES INDUSTRY

Education & Training

Teaching / Training

| Occupations & Degrees | Median Annual Wage |
|--|-----------------------|
| H.S. Diploma & Associate Degree | |
| Teaching Assistants, Except Postsecondary | \$28,320 |
| Preschool Teachers, Except Special Education | \$37,690 |
| Self-Enrichment Teachers | \$38,020 |
| Bachelor's Degree | |
| * Kindergarten Teachers, Except Special Education | \$50,750 |
| * Elementary School Teachers, Except Special Educatio | on \$50,850 |
| * Secondary School Teachers, Except Special & Career/ Technical Education | \$58,060 |
| * Middle School Teachers, Except Special & Career/ Technical Education | \$58,670 |
| Master's Degree | |
| * Educational, Guidance, & Career Counselors & Adviso | ors \$51,100 |
| * Instructional Coordinators | \$63,710 |
| * Education Administrators, Kindergarten through Secondary | \$96,610 |

EDUCATION & TRAINING

Teaching / Training Pathway

This pathway 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.



INTRODUCTORY LEVEL COURSES

- Introduction to Family and Consumer Sciences
- Career and Life Planning

TECHNICAL LEVEL COURSES

- Teaching as a Career
- Educational Leadership and Training A
- Education Research and Innovation
- Family Studies
- Teaching Observation
- Human Growth and Development Early Years
- Lifespan Development

APPLICATION LEVEL COURSES

- Teaching Internship
- Educational Leadership and Training B

OCCUPATIONS

- Teaching Assistants, Except Postsecondary
- Tutors and Teachers and Instructors, All Other
- Substitute Teachers, Short-Term
- Preschool Teachers, Except Special Education
- Self-Enrichment Teachers
- Coaches and Scouts
- Kindergarten Teachers, Except Special Education
- Elementary School Teachers, Except Special Education
- Secondary School Teachers, Except Special and Career/ Technical Education
- Middle School Teachers, Except Special and Career/ Technical Education
- Educational, Guidance, and Career Counselors and Advisors
- Postsecondary Teachers, All Other
- Instructional Coordinators
- Educational Administrators, Kindergarten through Secondary
- Education Administrators, Postsecondary

| 0 | ccupations & Degrees | Median Annual Wage |
|----|--|-----------------------|
| Н. | S. Diploma & Associate Degree | |
| | Teaching Assistants, Except Postsecondary | \$28,320 |
| | Tutors and Teachers and Instructors, All Other | \$29,588 |
| | Substitute Teachers, Short-Term | \$31,050 |
| | Preschool Teachers, Except Special Education | \$37,690 |
| | Self-Enrichment Teachers | \$38,020 |
| | Coaches and Scouts | \$38,440 |
| Ва | ichelor's Degree | |
| * | Kindergarten Teachers, Except Special Education | \$50,750 |
| * | Elementary School Teachers, Except Special Education | \$50,850 |
| * | Secondary School Teachers, Except Special & Career/Technical Education | \$58,060 |
| * | Middle School Teachers, Except Special & Career/Technical Education | \$58,670 |
| Mo | aster's Degree | |
| * | Educational, Guidance, & Career Counselors & Advisors | \$51,100 |
| * | Postsecondary Teachers, All Other | \$62,780 |
| * | Instructional Coordinators | \$63,710 |
| * | Education Administrators, Kindergarten through Secondary | \$96,610 |
| * | Education Administrators, Postsecondary | \$96,710 |

HIGH SCHOOL ASSESSMENTS, CREDENTIALS, OR CERTIFICATIONS

- AAFCS (pre-PAC): Education Fundamentals
- CareerSafe: OSHA Safety Certification (10 Hour)
- Master Teacher, Inc: Paraeducator assessment (Parts 1 & 2 - must take both)
- NC3: Data Analytics/Harnessing the Power of Data

POSTSECONDARY CREDITS

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 org
- <u>Tiered Technical Courses ksde.org at Kansas</u>
 <u>Community and Technical Colleges</u>

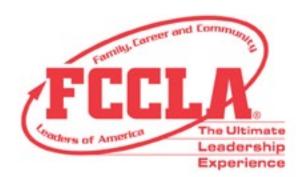
POSTSECONDARY PROGRAMS

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- Degree Stats Lesson (ksde.org)
- K-TIP Report (kansasregents.org)
- Kansas Post-Secondary Exploration Guide (ksde.org)

RESOURCES

- CTE Course Competencies and Indicators (ksde.org)
- <u>Cool Careers Episode 7:</u> <u>Elementary Teacher</u>
- Elementary Teacher | HirePaths
 Help Your Kansas Kid Explore
 Careers
- Kansas Labor Information Center (KLIC) - Kansas Career Posters (ks.gov)
- <u>Today's Occupations: High</u>
 <u>Demand, High Wage Jobs < Bachelor's (ks.gov)</u>
- Careers in Education & Training at <u>My Next Move</u>

STUDENT ORGANIZATION





PUBLIC SERVICES INDUSTRY

Law, Public Safety & Security

Corrections, Security, Law & Law Enforcement Services Emergency & Fire Management Services

| 0 | ccupations & Degrees | Median Annual Wage |
|--|---|-----------------------|
| H.S. Diploma or Short-Term On-The-Job Training | | |
| | Lifeguards, Ski Patrol, & Other Recreational Protective Service Workers | \$20,170 |
| | School Bus Monitors & Protective Service Workers, All Other Security Guards | \$26,900 |
| | Security Guards | \$30,360 |
| | S. Diploma & Moderate-Term On-The-Job Training or endegree Award | |
| | | |
| | Emergency Medical Technicians & Paramedics | \$29,443 |
| | Emergency Medical Technicians & Paramedics Correctional Officers & Jailers | \$29,443 \$39,850 |
| * | | |
| * | Correctional Officers & Jailers | \$39,850 |
| * | Correctional Officers & Jailers Police & Sheriff's Patrol Officers | \$39,850 |
| * | Correctional Officers & Jailers Police & Sheriff's Patrol Officers stsecondary Degree or Long-Term On-The-Job Training | \$39,850 \$48,890 |

LAW, PUBLIC SAFETY & SECURITY

Corrections, Security, Law & Law Enforcement Services

This pathway prepares individuals to apply theories and practices of organization management and criminal justice to the administration of public law enforcement agencies and operations. It includes instruction in law enforcement history and theory, operational command leadership, administration of public police organizations, labor relations, incident response strategies, legal and regulatory responsibilities, budgeting, public relations, and organizational leadership.

INTRODUCTORY LEVEL COURSES

 Introduction to Law, Public Safety, Corrections and Security (LPSCS)

TECHNICAL LEVEL COURSES

Pathway

Pre-Law Strand

- Practical Law
- Business Law
- Business Communications
- Business Management
- Accounting
- Business Economics

Law Enforcement Strand

- Public Safety Physical Education
- EMS First Responder
- Hazardous Materials for the First Responder
- Law Enforcement I
- Forensic Science I

APPLICATION LEVEL COURSES

Pre-Law Strand

- Foundations in Law
- Legal Proceedings
- Work Experience in LPSCS

Law Enforcement Strand

- Law Enforcement II
- Certified Protection Officer
- Corrections Officer
- Forensic Science II
- Work Experience in LPSCS

OCCUPATIONS

- Correctional Officers and Jailers
- Police and Sheriff's Patrol Officers
- Paralegals and Legal Assistants
- Lawyers

| Occupations & Degrees | Median Annual Wage |
|---|-----------------------|
| H.S. Diploma or Short-Term On-The-Job Training | |
| Correctional Officers and Jailers | \$39,850 |
| H.S. Diploma & Moderate-Term On-The-Job Training or Nondegree Award | |
| * Police & Sheriff's Patrol Officers | \$48,890 |
| Postsecondary Degree or Long-Term On-The- Job Training | |
| * Paralegals & Legal Assistants | \$48,490 |
| * Lawyers | \$96,620 |
| * High Demand, High Wage Source: Kansas Labor Information Center (KLIC) - Care | eer Posters (ks.gov) |

HIGH SCHOOL ASSESSMENTS, CREDENTIALS, OR CERTIFICATIONS

- American Red Cross: Cardio Pulmonary Resuscitation (CPR)/Infant/Toddler CPR
- American Red Cross: First Aid
- NC3: Data Analytics/Harnessing the Power of Data
- American Red Cross/American Heart Association: Basic Life Support

POSTSECONDARY CREDENTIALS

- International Federation of Protection Officers: Certified Protection Officer
- KS Emergency Medical Services Association: Emergency Medical Responder (EMR) (First Responder)

POSTSECONDARY CREDITS

Under the Excel in Career Technical Education Initiative, Kansas high school students qualify for state-funded college tuition in approved technical courses offered by Kansas technical and community colleges.

- Excel in CTE Initiative (SB155) kansasregents.org
- <u>Tiered Technical Courses ksde.org at Kansas Community</u> and <u>Technical Colleges</u>

POSTSECONDARY PROGRAMS

- Kansas DegreeStats Kansas Board of Regents ksdegreestats.org
- Degree Stats Lesson (ksde.org)
- K-TIP Report (kansasregents.org)
- Program Alignment (kansasregents.org)
- Kansas Post-Secondary Exploration Guide (ksde.org)

RESOURCES

- CTE Course Competencies and Indicators (ksde.org)
- Kansas Labor Information
 Center (KLIC) Kansas Career
 Posters (ks.gov)
- Today's Occupations: High Demand, High Wage Jobs < Bachelor's (ks.gov)
- Careers in Law, Public Safety, Corrections & Security at My Next Move
- LAPSEN | Home
- Kansas Mock Trial (ksbar.org)

STUDENT ORGANIZATION

Skills USA Kansas



PUBLIC SERVICES INDUSTRY

LAW, PUBLIC SAFETY & SECURITY

Emergency & Fire Management Services

This pathway prepares students for careers in emergency services and fire science occupations.



INTRODUCTORY LEVEL COURSES

- Introduction to Law, Public Safety, Corrections and Security (LPSCS)
- Introduction to Emergency Medical Services (EMS)

TECHNICAL LEVEL COURSES

- Medical Terminology
- Public Safety Physical Education
- EMS First Responder
- Hazardous Materials for the First Responder
- Fire Service Special Operations

APPLICATION LEVEL COURSES

- EMT I
- EMT II
- Fire Science I
- Fire Science II
- Work Experience in LPSCS

OCCUPATIONS

- Emergency Medical Technicians and Paramedics
- Firefighters
- First Line Supervisors of Firefighting and Prevention Workers

| Occupations & Degrees | Median Annual Wage |
|--|-----------------------|
| H.S. Diploma & Moderate-Term On-The-Job Training or Nondegree Award | |
| Emergency Medical Technicians and Paramedics | \$29,443 |
| Postsecondary Degree or Long-Term On-The- Job Training | |
| Firefighters | \$36,830 |
| First Line Supervisors of Firefighting and Prevention Workers | \$65,510 |

Source: Kansas Labor Information Center (KLIC) - Career Posters (ks.gov)

HIGH SCHOOL ASSESSMENTS, CREDENTIALS, OR CERTIFICATIONS

- American Red Cross: Cardio Pulmonary Resuscitation (CPR)/Infant/Toddler CPR
- American Red Cross: First Aid
- NC3: Data Analytics/Harnessing the Power of Data
- American Red Cross/American Heart Association: Basic Life Support

POSTSECONDARY CREDENTIALS

- KS Emergency Medical Services Association: Emergency Medical Responder (EMR) (First Responder)
- KS Emergency Medical Services Association: Emergency Medical Technician (EMT)
- Local Fire Departments: Fire Fighter Level
- DOT Hazardous Materials Transportation

POSTSECONDARY CREDITS

Under the Excel in Career Technical Education Initiative, Kansas high school students qualify for state-funded college tuition in approved technical courses offered by Kansas technical and community colleges.

- Excel in CTE Initiative (SB155) kansasregents.org
- <u>Tiered Technical Courses ksde.org at Kansas</u>
 <u>Community and Technical Colleges</u>

POSTSECONDARY PROGRAMS

- Kansas DegreeStats Kansas Board of Regents ksdegreestats.org
- <u>Degree Stats Lesson (ksde.org)</u>
- K-TIP Report (kansasregents.org)
- Program Alignment (kansasregents.org)
- Kansas Post-Secondary Exploration Guide (ksde. org)

RESOURCES

- CTE Course Competencies and Indicators (ksde.org)
- Kansas Labor Information
 Center (KLIC) Kansas Career
 Posters (ks.gov)
- Today's Occupations: High Demand, High Wage Jobs < Bachelor's (ks.gov)
- <u>Careers in Law, Public Safety,</u>
 <u>Corrections & Security at My</u>
 Next Move
- Kansas State Firefighters
 Association
- The Kansas Board of Emergency Medical Services (ksbems.org)

STUDENT ORGANIZATION

Skills USA Kansas





Media & Technology

Information Technology Arts, AV Technology & Communications



MEDIA & TECHNOLOGY INDUSTRY

Information Technology

Information Support & Services | Network Systems Programming & Software Development | Web & Digital Communications

| 0 | ccupations & Degrees | Median Annual Wage |
|---|--|-----------------------|
| H.S. Diploma or Short-Term On-The-Job Training or Some College & Moderate-Term On-The-Job Training | | |
| | Receptionists & Information Clerks | \$30,490 |
| * | Computer User Support Specialist | \$49,650 |
| Ва | chelor's Degree | |
| * | Computer Programmers | \$58,830 |
| * | Network & Computer Systems Administrators | \$79,010 |
| * | Computer Systems Analysts | \$81,390 |
| * | Software Developers & Software Quality Assurance Analysts & Testers | \$91,741 |
| Ва | chelor's Degree & 5 Years or More Work Experience | |
| * | Computer Network Architects | \$86,370 |
| * | Computer & Information Systems Managers | \$133,290 |

MEDIA & TECHNOLOGY INDUSTRY

INFORMATION TECHNOLOGY

Information Support & Services

This pathway prepares individuals to master and use computer software programs and applications for inputting, verifying, organizing, storing, retrieving, transforming (changing, updating, and deleting), and extracting information.



Pathway

INTRODUCTORY LEVEL COURSES

- Computing Systems
- Computer Applications

TECHNICAL LEVEL COURSES

Foundations of Information Technology

APPLICATION LEVEL COURSES

- CyberSecurity I
- CyberSecurity II
- Information Support and Services I
- Information Support and Services II
- Work-based Learning in Information Support and Services

OCCUPATIONS

- Computer User Support Specialists
- Software Developers and Software Quality Assurance Analysts and Testers
- Computer Systems Analysts
- Computer and Information Systems Managers
- Network and Computer Systems Administrators
- Computer Occupations, All Other
- Computer Network Architects
- Computer Programmers

| Occupations & Degre | es | Median Annual Wage |
|--|----------------|-----------------------|
| H.S. Diploma or Short-Term On-The-Job Training or Some College & Moderate-Term On-The-Job Training | | |
| * Computer User Suppor | t Specialist | \$49,650 |
| Bachelor's Degree | | |
| * Computer Programme | rs | \$58,830 |
| * Network & Computer Administrators | Systems | \$79,010 |
| * Computer Systems An | alysts | \$81,390 |
| Computer Occupation | s, All Other | \$87,400 |
| * Software Developers & Quality Assurance Ana | | \$91,741 |
| Bachelor's Degree & 5 Year Experience | s or More Work | |
| * Computer Network Ar | chitects | \$86,370 |
| * Computer & Informati Managers | on Systems | \$133,290 |

Source: Kansas Labor Information Center (KLIC) - Career Posters (ks.gov)

HIGH SCHOOL ASSESSMENTS, CREDENTIALS, OR **CERTIFICATIONS**

- Adobe: Digital Publishing Suite
- Microsoft (MOS): Microsoft Office Specialist Associate A
- Microsoft (MOS): Microsoft Office Specialist Expert A
- NC3: Data Analytics/Harnessing the Power of Data

POSTSECONDARY CREDENTIALS

- CISCO: CCNA CompTIA: A+
- CompTIA: Network+ CISCO: CCNP CISCO: CCIE CompTIA: Server+
- CISCO: CCDE CompTIA: Security+

POSTSECONDARY CREDITS

Under the Excel in Career Technical Education Initiative, Kansas high school students qualify for state-funded college tuition in approved technical courses offered by Kansas technical and community colleges.

- Excel in CTE Initiative (SB155) kansasregents.org
- Tiered Technical Courses ksde.org at Kansas Community and **Technical Colleges**

POSTSECONDARY PROGRAMS

- Kansas DegreeStats Kansas Board of Regents ksdegreestats.org
- Degree Stats Lesson (ksde.org)
- K-TIP Report (kansasregents.org)
- Kansas Post-Secondary Exploration Guide (ksde.org)

RESOURCES

- CTE Course Competencies and Indicators (ksde.org)
- Cool Careers Episode 1: **Cybersecurity Analyst**
- Kansas Labor Information Center (KLIC) - Kansas Career Posters (ks.gov)
- Today's Occupations: High Demand, High Wage Jobs < Bachelor's (ks.gov)
- Careers in Information Technology at My Next Move

STUDENT ORGANIZATION

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BUSINESS PROFESSIONALS

<u>Technology Student Association</u>



Network Systems

Pathway

INTRODUCTORY LEVEL COURSES

- Computing Systems
- Computer Applications

TECHNICAL LEVEL COURSES

Foundations of Information Technology

APPLICATION LEVEL COURSES

- CyberSecurity I
- CyberSecurity II
- Network Systems I
- Network Systems II
- Work-based Learning in Network Systems

OCCUPATIONS

- Computer User Support Specialists
- Software Developers and Software Quality Assurance Analysts and Testers
- Computer Systems Analysts
- Computer and Information Systems Managers
- Network and Computer Systems Administrators
- Computer Occupations, All Other
- Computer Network Architects
- Computer Programmers

| 0 | ccupations & Degrees | Median Annual Wage |
|--|---|-----------------------|
| H.S. Diploma or Short-Term On-The-Job Training or Some College & Moderate-Term On-The-Job Training | | |
| * | Computer User Support Specialist | \$49,650 |
| В | achelor's Degree | |
| * | Computer Programmers | \$58,830 |
| * | Network & Computer Systems Administrators | \$79,010 |
| * | Computer Systems Analysts | \$81,390 |
| | Computer Occupations, All Other | \$87,400 |
| * | Software Developers & Software Quality Assurance Analysts & Testers | \$91,741 |
| | achelor's Degree & 5 Years or More Work operience | |
| * | Computer Network Architects | \$86,370 |
| * | Computer & Information Systems Managers | \$133,290 |

This pathway focuses on the design, implementation, and management of linked systems of computers, peripherals, and associated software to maximize efficiency and productivity, and that prepares individuals to function as network specialists and managers at various levels. It includes instruction in operating systems and applications; systems design and analysis; networking theory and solutions; types of networks; network management and control; network and flow optimization; security; configuring; and troubleshooting.

HIGH SCHOOL ASSESSMENTS, CREDENTIALS, OR CERTIFICATIONS

- Microsoft (MOS): Microsoft Office Specialist Associate
- Microsoft (MOS): Microsoft Office Specialist Expert A
- NC3: Data Analytics/Harnessing the Power of Data

POSTSECONDARY CREDENTIALS

- CISCO: Certified Entry Networking Technician -CCENT
- CISCO: CCNA
- CISCO: CCNP

CISCO: CCIE

CISCO: CCDE

- Citrix: Certified Associate - Networking
- CompTIA: A+
- CompTIA: Network+
- CompTIA: Server+
- CompTIA: Security+

POSTSECONDARY CREDITS

Under the Excel in Career Technical Education Initiative, Kansas high school students qualify for state-funded college tuition in approved technical courses offered by Kansas technical and community colleges.

- Excel in CTE Initiative (SB155) kansasregents.org
- <u>Tiered Technical Courses ksde.org at Kansas Community and Technical Colleges</u>

POSTSECONDARY PROGRAMS

- <u>Kansas DegreeStats Kansas Board of Regents</u> <u>ksdegreestats.org</u>
- Degree Stats Lesson (ksde.org)
- K-TIP Report (kansasregents.org)
- Program Alignment (kansasregents.org)
- Kansas Post-Secondary Exploration Guide (ksde.org)

RESOURCES

- CTE Course Competencies and Indicators (ksde.org)
- Kansas Labor Information Center (KLIC) - Kansas Career Posters (ks.gov)
- Today's Occupations: High Demand, High Wage Jobs < Bachelor's (ks.gov)
- <u>Careers in Information Technology at</u>
 <u>My Next Move</u>

STUDENT ORGANIZATION

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Business Professionals of America



PROFESSIONALS
of AMERICA
Giving Purpose to Patential

<u>Technology Student Association</u>



INFORMATION TECHNOLOGY

Programming & Software Development

This pathway focuses on the general writing and implementation of generic and customized programs to drive operating systems and generally prepares individuals to apply the methods and procedures of software design and programming to software installation and maintenance. It includes instruction in software design, low- and high-level languages and program writing; program customization and linking; prototype testing; troubleshooting; and related aspects of operating systems and networks. Careers in Programming and Software Development involve the design, development, implementation and maintenance of computer systems and software, requiring knowledge of computer operating systems, programming languages and software development.

Pathway

INTRODUCTORY LEVEL COURSES

- Computing Systems
- Computer Applications
- Introduction to Computer Coding
- Introduction to Physical Computing

• TECHNICAL LEVEL COURSES

- Technical Introduction to Computer Science
- Computer Programming
- Database Applications
- Web Page Design
- Data Systems/Processing
- Computer Programming Other Language
- AP Computer Science Principles

APPLICATION LEVEL COURSES

- CyberSecurity I
- CyberSecurity II
- AP Computer Science A
- IB Computing
- Particular Topics in Computer Programming
- Work-based Learning in Programming and Software Development

OCCUPATIONS

- Computer User Support Specialists
- Software Developers and Software Quality Assurance Analysts and Testers
- Computer Systems Analysts
- Computer and Information Systems Managers
- Network and Computer Systems Administrators
- Computer Occupations, All Other
- Computer Network Architects
- Computer Programmers

| 0 | ccupations & Degrees | Median Annual Wage |
|--|---|-----------------------|
| H.S. Diploma or Short-Term On-The-Job Training or Some College & Moderate-Term On-The-Job Training | | |
| * | Computer User Support Specialist | \$49,650 |
| Вс | achelor's Degree | |
| * | Computer Programmers | \$58,830 |
| * | Network & Computer Systems Administrators | \$79,010 |
| * | Computer Systems Analysts | \$81,390 |
| | Computer Occupations, All Other | \$87,400 |
| * | Software Developers & Software Quality Assurance Analysts & Testers | \$91,741 |
| _ | achelor's Degree & 5 Years or More Work eperience | |
| * | Computer Network Architects | \$86,370 |
| * | Computer & Information Systems Managers | \$133,290 |
| | High Demand, High Wage urce: <u>Kansas Labor Information Center (KLIC) - Car</u> | eer Posters (ks.gov) |

HIGH SCHOOL ASSESSMENTS, CREDENTIALS, OR CERTIFICATIONS

- Adobe: Dreamweaver
- Adobe: Illustrator
- Microsoft (MOS): Microsoft Office Specialist Associate A
- Microsoft (MOS): Microsoft Office Specialist Expert A
- NC3: Data Analytics/Harnessing the Power of Data
- Apple: App Development with Swift Level 1

POSTSECONDARY CREDENTIALS

- CISCO: CCNA
- CompTIA: A+
- CISCO: CCNP
- CISCO: CCIE
 CompTIA: Server+
- CISCO: CCDE
- CompTIA: Security+

CompTIA: Network+

POSTSECONDARY CREDITS

Under the Excel in Career Technical Education Initiative, Kansas high school students qualify for state-funded college tuition in approved technical courses offered by Kansas technical and community colleges.

- Excel in CTE Initiative (SB155) kansasregents.org
- <u>Tiered Technical Courses ksde.org at Kansas Community and Technical Colleges</u>

POSTSECONDARY PROGRAMS

- Kansas DegreeStats Kansas Board of Regents ksdegreestats.org
- Degree Stats Lesson (ksde.org)
- K-TIP Report (kansasregents.org)
- Program Alignment (kansasregents.org)
- Kansas Post-Secondary Exploration Guide (ksde.org)

RESOURCES

- CTE Course Competencies and Indicators (ksde.org)
- Kansas Labor Information Center (KLIC) - Kansas Career Posters (ks.gov)
- Today's Occupations: High Demand, High Wage Jobs < Bachelor's (ks.gov)
- Careers in Information Technology at My Next Move

STUDENT ORGANIZATION

• Skills USA Kansas



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Business Professionals of America



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of AMERICA
Giving Purpose to Patential

• Technology Student Association



MEDIA & TECHNOLOGY INDUSTRY

INFORMATION TECHNOLOGY

Web & Digital Communications

Pathway

INTRODUCTORY LEVEL COURSES

- Computing Systems
- Computer Applications

TECHNICAL LEVEL COURSES

- Graphic Design
- Computer Programming
- Web Page Design
- Computer Graphics
- Interactive Media
- Animation
- Internet Marketing
- GIS Technology

APPLICATION LEVEL COURSES

- IB Information Technology in Global Society
- Emerging Technologies Computing
- Game Design and Authoring for the Web
- Particular Topics in Media Technology
- GIS Spatial Applications
- Web and Digital Communications Project Management

OCCUPATIONS

- Web Developers
- Web and Digital Interface Designers

| Occupations & Degrees | | Median Annual Wage |
|-----------------------|--|-----------------------|
| | Web Developers | \$67,960 |
| | Web and Digital Interface Designers | \$65,800 |

Source: <u>Kansas Labor Information Center (KLIC) - Career Posters</u> (<u>ks.gov</u>)

This pathway prepares individuals to develop and maintain web servers and the hosted web pages at one or a group of web sites, and to function as designated webmasters. It includes instruction in computer systems and networks, server installation and maintenance, web page design and editing, information resources management, web policy and procedures, internet applications of information systems security, user interfacing and usability research, and relevant management and communications skills.



HIGH SCHOOL ASSESSMENTS, CREDENTIALS, OR CERTIFICATIONS

- Adobe: Dreamweaver
- Adobe: Frame Maker
- Microsoft (MOS): Microsoft Office Specialist Associate A
- Microsoft (MOS): Microsoft Office Specialist Expert A
- NC3: Data Analytics/Harnessing the Power of Data
- Apple: App Development with Swift Level 1

POSTSECONDARY CREDENTIALS

- CISCO: CCNA
 CompTIA: A+
- CISCO: CCNP
 CompTIA: Network+
- CISCO: CCIECompTIA: Server+CISCO: CCDECompTIA: Security+

POSTSECONDARY CREDITS

Under the Excel in Career Technical Education Initiative, Kansas high school students qualify for state-funded college tuition in approved technical courses offered by Kansas technical and community colleges.

- Excel in CTE Initiative (SB155) kansasregents.org
- <u>Tiered Technical Courses ksde.org at Kansas Community and Technical Colleges</u>

POSTSECONDARY PROGRAMS

- Kansas DegreeStats Kansas Board of Regents ksdegreestats.
 org
- Degree Stats Lesson (ksde.org)
- K-TIP Report (kansasregents.org)
- <u>Program Alignment (kansasregents.org)</u>
- Kansas Post-Secondary Exploration Guide (ksde.org)

RESOURCES

- CTE Course Competencies and Indicators (ksde.org)
- Kansas Labor Information Center (KLIC) - Kansas Career Posters (ks.gov)
- Today's Occupations: High Demand, High Wage Jobs < Bachelor's (ks.gov)
- <u>Careers in Information Technology at</u>
 <u>My Next Move</u>

STUDENT ORGANIZATION

• Skills USA Kansas
SkillsUSA

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Business Professionals of America



PROFESSIONALS
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Giving Purpose to Potential

• Technology Student Association





MEDIA & TECHNOLOGY INDUSTRY

Arts, AV Technology & Communications

Digital Media | Graphic Design

| 00 | ccupations & Degrees | Median Annual Wage |
|-------------------|--|-----------------------|
| Bachelor's Degree | | |
| * | Graphic Designers | \$49,180 |
| | | |
| Мс | aster's Degree | |
| * | Librarians and Media Collections Specialists | \$60,400 |

Digital Media

Pathway

This pathway focuses on the development, use, critical evaluation, and regulation of new electronic communication technologies using computer applications; and that prepares individuals to function as developers and managers of digital communications media. It includes instruction in computer and telecommunications technologies and processes; design and development of digital communications; marketing and distribution; digital communications regulation, law, and policy; the study of human interaction with, and use of, digital media; and emerging trends and issues.

INTRODUCTORY LEVEL COURSES

- Computer Applications
- Business Essentials

TECHNICAL LEVEL COURSES

- Graphic Design
- Sports and Entertainment Marketing
- 21st Century Journalism
- Graphic Design Fundamentals
- Audio/Visual Production Fund
- Digital Media Technology
- Photo Imaging
- Digital Marketing
- Media and Public Relations

APPLICATION LEVEL COURSES

- Video Production
- Digital Media Design and Production
- Digital Media Project Management

OCCUPATIONS

Librarians and Media Collections Specialists

| Oc | cupations & Degrees | Median Annual Wage |
|----|---|-----------------------|
| * | Librarians and Media Collections Specialists | \$58,440 |

* High Demand, High Wage

Source: Kansas Labor Information Center (KLIC) - Career Posters (ks.gov)

HIGH SCHOOL ASSESSMENTS, CREDENTIALS, OR CERTIFICATIONS

- Adobe: Dreamweaver
- Adobe: Photoshop
- Adobe Premier Pro
- CareerSafe: OSHA Safety Certification (10 Hours)
- Microsoft (MOS) Excel
- Microsoft (MOS) PowerPoint
- Microsoft (MOS) Access
- Microsoft (MOS) Word
- NC3: Data Analytics/Harnessing the Power of Data

POSTSECONDARY CREDITS

Under the Excel in Career Technical Education Initiative, Kansas high school students qualify for state-funded college tuition in approved technical courses offered by Kansas technical and community colleges.

- Excel in CTE Initiative (SB155) kansasregents.org
- <u>Tiered Technical Courses ksde.org at Kansas</u>
 <u>Community and Technical Colleges</u>

POSTSECONDARY PROGRAMS

- Kansas DegreeStats Kansas Board of Regents ksdegreestats.org
- Degree Stats Lesson (ksde.org)
- K-TIP Report (kansasregents.org)
- Program Alignment (kansasregents.org)
- Kansas Post-Secondary Exploration Guide (ksde.org)

RESOURCES

- CTE Course Competencies and Indicators (ksde.org)
- Kansas Labor Information Center (KLIC) - Kansas Career Posters (ks.gov)
- <u>Today's Occupations: High Demand,</u>
 <u>High Wage Jobs < Bachelor's (ks.gov)</u>
- <u>Careers in Arts, Audio/Video</u>
 <u>Technology & Communications at My</u>

 Next Move

STUDENT ORGANIZATION

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<u>Technology Student Association</u>







Graphic Design Pathway

INTRODUCTORY LEVEL COURSES

- Computer Applications
- Introduction to Drawing and Design

TECHNICAL LEVEL COURSES

- Graphic Design
- Computer Graphics
- Principles of Illustration
- Graphic Design Fundamentals
- Photo Imaging

APPLICATION LEVEL COURSES

- Media Technology Workplace Experience
- Graphic Design Project Management

OCCUPATIONS

Graphic Designers

| O | ccupations & Degrees | Median Annual Wage |
|---|----------------------|-----------------------|
| * | Graphic Designers | \$48,610 |

* High Demand, High Wage

Source: <u>Kansas Labor Information Center (KLIC) - Career Posters</u> (<u>ks.gov</u>)

HIGH SCHOOL ASSESSMENTS, CREDENTIALS, OR CERTIFICATIONS

- Adobe: InDesign
- Adobe: Photoshop
- CareerSafe: OSHA Safety Certification (10 Hours)
- NC3: Data Analytics/Harnessing the Power of Data

POSTSECONDARY CREDITS

Under the Excel in Career Technical Education Initiative, Kansas high school students qualify for state-funded college tuition in approved technical courses offered by Kansas technical and community colleges.

- Excel in CTE Initiative (SB155) kansasregents.org
- <u>Tiered Technical Courses ksde.org at Kansas</u>
 <u>Community and Technical Colleges</u>

POSTSECONDARY PROGRAMS

- Kansas DegreeStats Kansas Board of Regents ksdegreestats.org
- Degree Stats Lesson (ksde.org)
- K-TIP Report (kansasregents.org)
- Program Alignment (kansasregents.org)
- Kansas Post-Secondary Exploration Guide (ksde.org)

RESOURCES

- CTE Course Competencies and Indicators (ksde.org)
- Kansas Labor Information Center (KLIC) - Kansas Career Posters (ks.gov)
- Today's Occupations: High Demand,
 High Wage Jobs < Bachelor's (ks.gov)
- <u>Careers in Arts, Audio/Video</u>
 <u>Technology & Communications at My</u>
 <u>Next Move</u>

STUDENT ORGANIZATION

Skills USA Kansas



• Future Business Leaders of America



<u>Technology Student Association</u>





Health

Health & Biosciences



Health & Biosciences

Biochemistry | Biomedical | Health Science

| 0 | ccupations & Degrees | Median Annual Wage |
|-----|---|-----------------------|
| Н.: | S. Diploma & Short to Moderate-Term On-The-Job Training | |
| | Home Health & Personal Care Aides | \$25,000 |
| | Medical Secretaries & Administrative Assistants | \$36,950 |
| | Pharmacy Technicians | \$38,020 |
| As: | sociate Degree | |
| * | Physical Therapist Assistant | \$60,720 |
| * | Radiologic Technologies & Technicians | \$61,340 |
| * | Respiratory Therapists | \$64,800 |
| * | Dental Hygienists | \$77,610 |
| Ва | chelor's, Master's, or Doctoral/Professional Degree | |
| * | Registered Nurses | \$66,640 |
| * | Medical & Health Services Managers | \$96,820 |
| * | Nurse Practitioners | \$108,350 |
| * | Pharmacists | \$129,640 |

HEALTH & BIOSCIENCES

Biochemistry

Pathway

INTRODUCTORY LEVEL COURSES

- Environmental Science
- Chemistry
- Computing Systems
- Computer Applications

TECHNICAL LEVEL COURSES

- Biotechnology in Agriculture
- Anatomy and Physiology
- AP Environmental Science
- Pharmacology
- Applied Biochemistry
- Plant and Soil Science

APPLICATION LEVEL COURSES

- Natural Resources Management
- Bioengineering
- Biotechnical Engineering
- Environmental Resources and Wildlife Science
- Emerging Technologies
- Biochemistry Workplace Experience
- Applications in Biotechnology in Agriculture

OCCUPATIONS

- Surgical Technologists
- Radiologic Technologists and Technicians
- Clinical Laboratory Technologists and Technicians
- Pharmacists
- Medical Scientists

| Occupations & Degrees | Median Annual Wage |
|--|-----------------------|
| H.S. Diploma & Short to Moderate-Term On-The-Job Training | |
| * Surgical Technologists | \$48,660 |
| Associate Degree | |
| * Radiologic Technologists and Technicians | \$61,340 |
| Bachelor's, Master's, or Doctoral/Profession- al Degree | |
| * Clinical Laboratory Technologists and Technicians | \$50,580 |
| * Medical Scientists | \$76,400 |
| * Pharmacists | \$129,640 |

* High Demand, High Wage

Source: Kansas Labor Information Center (KLIC) - Career Posters (ks.gov)

HIGH SCHOOL ASSESSMENTS, CREDENTIALS, OR CERTIFICATIONS

NC3: Data Analytics/Harnessing the Power of Data

Biochemistry education prepares students for the introduction to expanding careers

that blend chemistry, engineering and biology with classes in environmental sciences,

around technical skills and academic classes that lead to occupations commonly found

in laboratories, hospitals, food industry, medical research, forensics, genetics, plant

plants, animals, engineering, anatomy, and chemistry. This pathway is centered

research, pharmaceuticals, microbiology, and environmental studies.

- American Red Cross/American Heart Association: Basic Life Support
- Biotility Applied Biotech Training: Biotechnician Assistant Credential (BACE)
- Bioscience Core Skill Institute (BCSI):
 Aseptic Technique (Lab Bench Level), Essential
 5, Numeracy, Safety Hazard Assessment or
 Small Volume Metrology

POSTSECONDARY ASSESSMENTS, CREDENTIALS, OR CERTIFICATIONS

 KS Dept. of Agriculture: Pesticide Applicator (Personal or Commercial)

The above Assessments, Credentials, or Certifications are found: 2023-2024 Kansas Pathway Assessments, Credentials, and Certifications (K-PAC) List Health Science Page 9.

POSTSECONDARY CREDITS

Under the Excel in Career Technical Education Initiative, Kansas high school students qualify for state-funded college tuition in approved technical courses offered by Kansas technical and community colleges.

- Excel in CTE Initiative (SB155) kansasregents.org
- <u>Tiered Technical Courses</u> ksde.org at Kansas Community and Technical Colleges

POSTSECONDARY PROGRAMS

- Kansas DegreeStats Kansas Board of Regents ksdegreestats.org
- Degree Stats Lesson ksde.org
- K-TIP Report kansasregents.org
- Kansas Post-Secondary Exploration Guide ksde.org

RESOURCES

- Careers in Health Science at My Next Move Recommended for Middle School
- Health Science Career Cluster onetonline.org
- <u>Health Science Advance CTE</u> careertech.org
- Kansas Labor Information
 Center (KLIC) High Demand
 Occupations (ks.gov)

STUDENT ORGANIZATION

Kansas Health Occupations
Students of America (HOSA)



HEALTH & BIOSCIENCES

Biomedical

Pathway

INTRODUCTORY LEVEL COURSES

- Biology
- Chemistry
- Computing Systems
- Computer Applications

TECHNICAL LEVEL COURSES

- Principles of Biomedical Science
- Medical Interventions
- Human Body Systems
- Anatomy and Physiology
- Robotics
- Pharmacology
- Food Science
- Agricultural Food Science
- AP Biology

APPLICATION LEVEL COURSES

- Biomedical Innovation
- Bioengineering
- Biotechnical Engineering
- Emerging Technologies
- Particular Topics in Engineering
- Biomedical Workplace Experience

OCCUPATIONS

- Radiologic Technologies and Technicians
- Dental Hygienists

* High Demand, High Wage

- Diagnostic Medical Sonographers
- Medical and Health Services Managers
- Clinical Laboratory Technologists and Technicians
- Pharmacists
- Medical Scientists, Except Epidemiologists

| Occupations & Degrees | Median Annual Wage |
|---|-----------------------|
| Associate's Degree | |
| * Radiologic Technologies and Technicians | \$61,340 |
| * Dental Hygienists | \$77,610 |
| * Diagnostic Medical Sonographers | \$80,690 |
| Bachelor's Degree | |
| * Medical and Health Services Managers | \$96,280 |
| * Clinical Laboratory Technologists and Technicians | \$50,580 |
| Doctoral or Professional Degree | |
| * Medical Scientists, Except Epidemiologists | \$76,400 |
| * Pharmacists | \$129,640 |

Source: Kansas Labor Information Center (KLIC) - Career Posters (ks.gov)

HIGH SCHOOL ASSESSMENTS, CREDENTIALS, OR CERTIFICATIONS

This pathway prepares individuals to apply mathematical and scientific principles

to the design, development and operational evaluation of biomedical and health

systems and products such as integrated biomedical systems, instrumentation,

medical information systems, artificial organs and prostheses, and health

- NC3: Data Analytics/Harnessing the Power of Data
- American Red Cross Cardio Pulmonary Resuscitation (CPR)/Infant/Toddler CPR
- American Red Cross First Aid

management and care delivery systems.

- American Red Cross Basic Life Support (BLS)
- Biotility Applied Biotech Training: Bio-technician Assistant Credential (BACE)
- Bioscience Core Skill Institute (BCSI):
 Aseptic Technique (Lab Bench Level), Essential 5,
 Numeracy, Safety Hazard Assessment or Small
 Volume Metrology

POSTSECONDARY ASSESSMENTS, CREDENTIALS, OR CERTIFICATIONS

 KS Dept. for Aging & Disability Services: Certified Nurse Aide

POSTSECONDARY CREDITS

Under the Excel in Career Technical Education Initiative, Kansas high school students qualify for state-funded college tuition in approved technical courses offered by Kansas technical and community colleges.

- <u>Excel in CTE Initiative (SB155)</u> kansasregents.org
- <u>Tiered Technical Courses</u> ksde.org at Kansas Community and Technical Colleges

POSTSECONDARY PROGRAMS

- Kansas DegreeStats Kansas Board of Regents ksdegreestats.org
- Degree Stats Lesson ksde.org
- K-TIP Report kansasregents.org
- Program Alignment (kansasregents.org)
- Kansas Post-Secondary Exploration Guide ksde.org

RESOURCES

- <u>CTE Course Competencies and</u> Indicators (ksde.org)
- Kansas Labor Information
 Center (KLIC) High
 Demand Occupations
 (ks.gov)
- Today's Occupations: High Demand, High Wage Jobs < Bachelor's (ks.gov)

STUDENT ORGANIZATION

Kansas Health Occupations
Students of America (HOSA)



This pathway focuses on the health professions and related clinical sciences. It includes planning, managing, and providing therapeutic services, diagnostic services, health informatics, and support services.



Health Science

Pathway

INTRODUCTORY LEVEL COURSES

- Introduction to Health Care
- Biology
- Chemistry

TECHNICAL LEVEL COURSES

- Nutrition and Wellness
- Anatomy and Physiology
- EMS First Responder
- Medical Terminology
- Health Information (HIT)
- AP Biology
- Health Care Research and Clinical Skills A
- Health Care Research and Clinical Skills

General Health Strand

- Fundamentals of Emergency Services
- Medical Interventions

Sports Med/Rehabilitation Strand

- Physical Therapy
- Care of Athletes
- Sports Medicine I

Allied Health Strand

- Medical Imaging
- Pharmacology
- Emergency Medical Tech (EMT)

APPLICATION LEVEL COURSES

- Certified Medication Aide
- Certified Nursing Assistant
- Health Care Work Experience General Health Strand
- Phlebotomy Technician Sports Med/Rehabilitation Strand
- Sports Medicine II Allied Health Strand
- Phlebotomy Technician
- Home Health Aide
- Dental Assistant
- Pharmacy Technician
- Emergency Medical Tech II (EMT II)

OCCUPATIONS

- Licensed Practical and Licensed **Vocational Nurses**
- Surgical Technologists
- Radiologic Technologists and Technicians
- Physical Therapist Assistants
- Dental Hygienists
- Respiratory Therapists
- Diagnostic Medical Sonographers
- Occupational Therapy Assistants
- Registered Nurses
- Medical and Health Services Managers
- Clinical Laboratory Technologists and Technicians
- Nurse Practitioners
- Occupational Therapists
- Speech-Language Pathologists
- Physician Assistants
- Physicians, All Other; and Ophthalmologists, Except Pediatric
- Physical Therapists
- Pharmacists
- Medical Scientists, Except Epidemiologists

| Occupations & Degrees | | Median Annual Wage |
|-----------------------|---|-----------------------|
| Pos | tsecondary nondegree award | |
| * | Licensed Practical and Licensed Vocational Nurses | \$49,250 |
| * | Surgical Technologists | \$48,660 |
| Asso | ociate's Degree | |
| * | Radiologic Technologists and Technicians | \$61,340 |
| * | Physical Therapist Assistants | \$60,720 |
| * | Dental Hygienists | \$77,610 |
| * | Respiratory Therapists | \$64,800 |
| * | Diagnostic Medical Sonographers | \$80,690 |
| * | Occupational Therapy Assistants | \$58,400 |
| Вас | helor's Degree | |
| * | Registered Nurses | \$66,460 |
| * | Medical and Health Services Managers | \$96,280 |
| * | Clinical Laboratory Technologists and Technicians | \$50,580 |
| Mas | ster's Degree | |
| * | Nurse Practitioners | \$108,350 |
| * | Occupational Therapists | \$84,610 |
| * | Speech-Language Pathologists | \$77,830 |
| * | Physician Assistants | \$108,090 |
| Doc | toral or Professional Degree | |
| * | Physicians, All Other; and Ophthalmologists, Except Pediatric | \$184,974 |
| * | Physical Therapists | \$90,850 |
| * | Pharmacists | \$129,640 |
| * | Medical Scientists, Except Epidemiologists | \$76,400 |
| | th Demand, High Wage ce: <u>Kansas Labor Information Center (KLIC) - Career Posters (ks.gov)</u> | |

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HEALTH & BIOSCIENCES



Health Science

Pathway (Continued)

HIGH SCHOOL ASSESSMENTS, CREDENTIALS, OR CERTIFICATIONS

- American Red Cross Cardio Pulmonary Resuscitation (CPR)/Infant/Toddler CPR
- American Red Cross First Aid
- National Consortium for Health Science Education: National Health Science Assessment
- CareerSafe: OSHA Safety Certification (10 Hour)
- NC3: Data Analytics/Harnessing the Power of Data
- American Red Cross/American Heart Association: Basic Life Support

POSTSECONDARY ASSESSMENTS, CREDENTIALS, OR CERTIFICATIONS

- KS Dept. for Aging & Disability Services: Certified Medical Aide (CMA)
- KS Dept. for Aging & Disability Services: Certified Nurse Aide (CNA)
- KS Dept. for Aging & Disability Services: Home Health Aide
- National Health career Association/National Center for Competency Testing (EKG/ECG): EKG Technician
- KS Emergency Medical Services Association: Emergency Medical Responder (EMR) (First Responder)
- KS Emergency Medical Services Association: Emergency Medical Technician (EMT)
- KS Board of Pharmacy/Pharmacy Technician Certification Board: Pharmacy Technician
- American Society for Clinical Pathology: Phlebotomy Technician
- KS Dental Board: Dental Assistant

POSTSECONDARY CREDITS

Under the Excel in Career Technical Education Initiative, Kansas high school students qualify for state-funded college tuition in approved technical courses offered by Kansas technical and community colleges.

- Excel in CTE Initiative (SB155) kansasregents.org
- <u>Tiered Technical Courses</u> ksde.org at Kansas Community and Technical Colleges

POSTSECONDARY PROGRAMS

- <u>Kansas DegreeStats Kansas Board of Regents</u> ksdegreestats.org
- <u>Degree Stats Lesson</u> ksde.org
- K-TIP Report kansasregents.org
- Program Alignment (kansasregents.org)
- Kansas Post-Secondary Exploration Guide ksde.org

RESOURCES

- CTE Course Competencies and Indicators (ksde.org)
- Registered Nurse | HirePaths Help Your Kansas Kid Explore Careers Registered Nurse
- <u>HirePaths Help Your Kansas Kid Explore Careers</u>
- Cool Careers Episode 18: Registered Nurse
- Medical Imaging Technician | HirePaths Help Your Kansas Kid Explore Careers
- Cool Careers Episode 13: Medical Imaging Technician
- Kansas Labor Information Center (KLIC) High Demand Occupations (ks.gov)
- <u>Today's Occupations: High Demand, High Wage Jobs < Bachelor's (ks.gov)</u>
- Careers in Health Science at My Next Move

STUDENT ORGANIZATION

Kansas Health Occupations Students of America (HOSA)w





Design, Production & Repair

Architecture & Construction Engineering Manufacturing Transportation



DESIGN, PRODUCTION & REPAIR INDUSTRY

Architecture & Construction

Construction & Design

| Occupations & Degrees | | Median Annual Wage |
|--|---------------------------------------|-----------------------|
| Short to Moderate-Term On-The-Job Training | | |
| | Conveyer Operators & Tenders | \$35,300 |
| | Construction Laborers | \$37,420 |
| * | Painters, Construction & Maintenance | \$44,480 |
| * | Cement Mason & Concrete Finishers | \$47,800 |
| Н.: | S. Diploma & Apprenticeship | |
| * | Sheet Metal Workers | \$47,870 |
| * | Carpenters | \$48,220 |
| * | Plumbers, Pipefitters, & Steamfitters | \$51,350 |
| * | Electricians | \$58,290 |
| Ва | chelor's Degree | |
| * | Cost Estimators | \$69,230 |
| * | Civil Engineers | \$79,870 |
| * | Construction Managers | \$89,860 |

ARCHITECTURE & CONSTRUCTION



Construction & Design

Pathway

INTRODUCTORY LEVEL COURSES

- Drafting
- Production Blueprint: Reading
- Introduction to Industrial Technology

TECHNICAL LEVEL COURSES

Design Strand

- Interior Design I
- Interior Design II
- Architecture Design
- Drafting/CAD

Construction Strand

- Carpentry
- Woodworking Principles
- Skilled Mechanical Crafts

APPLICATION LEVEL COURSES

Design Strand

- Research and Design for Preconstruction
- Advanced Studies
- Workplace Experience in Architecture and Construction
- Comprehensive Workplace Experience in Architecture and Construction
- Interior Architectural Design

Construction Strand

- Sheet Metal Technology
- Research and Design in Building Trades
- Remodel and Building Maintenance
- HVAC Technology
- Plumbing Technology
- Pipefitting Technology
- Electrical and Security Systems
- Carpentry II
- Furniture and Cabinetry Fabrication
- Advanced Materials Technology
- Workplace Experience in Architecture and Construction
- Comprehensive Workplace Experience in Architecture and Construction

OCCUPATIONS

- Painters, Construction and Maintenance
- Operating Engineers and Other Construction Equipment Operators
- Cement Masons and Concrete Finishers
- Sheet Metal Workers
- Carpenters
- Heating, Air Conditioning, and Refrigeration Mechanics and Installers (HVAC)
- Plumbers, Pipefitters, and Steamfitters
- Electricians
- First-Line Supervisors of Construction Trades and Extraction Workers
- Cost Estimators
- Civil Engineers
- Construction Managers
- Architectural and Engineering Managers

| 0 | ccupations & Degrees | Median Annual Wage |
|----|--|-----------------------|
| Sh | ort to Moderate-Term On-The-Job Training | |
| * | Painters, Construction & Maintenance | \$44,480 |
| * | Cement Mason & Concrete Finishers | \$47,800 |
| Н. | S. Diploma | |
| * | Operating Engineers and Other Construction Equipment Operators | \$46,730 |
| * | Sheet Metal Workers | \$47,870 |
| * | Carpenters | \$48,220 |
| * | Heating, Air Conditioning, and Refrigeration Mechanics and Installers (HVAC) | \$49,020 |
| * | Plumbers, Pipefitters, & Steamfitters | \$51,350 |
| * | Electricians | \$58,290 |
| * | First-Line Supervisors of Construction Trades and Extraction Workers | \$68,260 |
| Вс | ichelor's Degree | |
| * | Cost Estimators | \$69,230 |
| * | Civil Engineers | \$79,870 |
| * | Construction Managers | \$89,860 |
| * | Architectural and Engineering Managers | \$142,280 |
| | ligh Demand, High Wage | s (ks gov) |

This pathway generally prepares individuals to

apply technical knowledge and skills in the building,

properties. It may include instruction in masonry,

management, inspection and other construction-

carpentry, electrical and power transmission

installation, building/construction finishing,

related applications.

inspecting, and maintaining of structures and related

Source: Kansas Labor Information Center (KLIC) - Career Posters (ks.gov)

*Continued on next page

ARCHITECTURE & CONSTRUCTION



Construction & Design

HIGH SCHOOL ASSESSMENTS, CREDENTIALS, OR CERTIFICATIONS

- American Design Drafting Association: Certified Drafter
- AHRI: Variety of HVAC Related Areas
- · Autodesk: User, Professional, Specialist

Pathway (Continued)

- EPA: Section 608 handling & buying refrigerants)
- CareerSafe: OSHA Safety Certification (10 Hour)
- Solid Works: Software
- NC3: Data Analytics/Harnessing the Power of Data

POSTSECONDARY CREDITS

Under the Excel in Career Technical Education Initiative, Kansas high school students qualify for state-funded college tuition in approved technical courses offered by Kansas technical and community colleges.

- Excel in CTE Initiative (SB155) kansasregents.org
- <u>Tiered Technical Courses ksde.org at Kansas Community and Technical Colleges</u>

POSTSECONDARY PROGRAMS

- Kansas DegreeStats Kansas Board of Regents ksdegreestats.org
- Degree Stats Lesson (ksde.org)
- K-TIP Report (kansasregents.org)
- Program Alignment (kansasregents.org)
- Kansas Post-Secondary Exploration Guide (ksde.org)

POSTSECONDARY CREDENTIALS

- HVAC Excellence: Core & Air Conditioning, Gas, Heat & Electrical
- HVAC Excellence: Core & Light Commercial Air Conditioning, Gas Heat & Electrical
- HVAC Excellence: Core & Light Commercial Refrigeration & Electrical
- ICE: Core & Commercial Refrigeration
- ICE: Core & Light Commercial Air Conditioning & Heating
- ICE: Core & Residential Air Conditioning & Heating
- NATE: Core & Air Conditioning
- NATE: Core & Air Distribution
- NATE: Core & Air to Air Heat Pumps
- NATE: Core & Gas or Oil Furnaces
- NATE: Core & Light Commercial/Commercial Refrigeration
- NCCER Core & Carpentry Level 1
- NCCER: Core & Concrete Finishing
- NCCER: Core & Construction Laborer
- NCCER: Core & Electrical Level 1
- NCCER: Core & HVAC Levels 1 & 2
- NCCER: Core & Masonry Level 1
- NCCER: Core & Plumbing & Pipefitting Level 1
- NCCER Core & Sheet Metal Level 1
- International Code Council: Building Construction
- NCCER: Core & Carpentry Level 2

RESOURCES

- CTE Course Competencies and Indicators (ksde.org)
- Cool Careers Episode 10: Carpenter
- Cool Careers Episode 9: Welder
- Cool Careers Episode 3: Plumber
- Kansas Labor Information Center (KLIC) Kansas Career Posters (ks.gov)
- <u>Today's Occupations: High Demand, High Wage Jobs</u>
 <u>Sachelor's (ks.gov)</u>
- Careers in Architecture & Construction at My Next Move
- National Center for Construction Education & Research - NCCER

STUDENT ORGANIZATION

• Skills USA Kansas







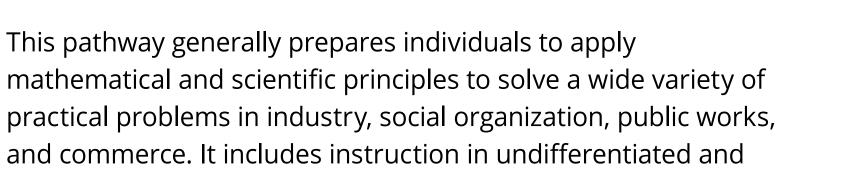
Engineering

Engineering & Applied Mathematics Energy | Aviation Production

Occupation Overview

| Occupations & Degrees H.S. Diploma & Moderate-Term On-The-Job Training | | Median Annual Wage | |
|---|--|----------------------------------|--|
| | | <u> </u> | |
| * | Welders, Cutters, Solderers, & Brazers | \$47,080 | |
| * | Inspectors, Testers, Sorters, Samplers, & Weighers | \$47,960 | |
| * | Production, Planning, & Expediting Clerks | \$48,480 | |
| * | Aircraft Structure, Surfaces, Rigging, & Systems Assemblers | \$61,500 | |
| | S. Diploma & Less Than 5 Years Work Experience or Long-Term n-The-Job Training | | |
| <u> </u> | | | |
| * | Machinists | \$45,400 | |
| | Machinists Industrial Machinery Mechanics | \$45,400 \$62,130 | |
| * | | | |
| * * | Industrial Machinery Mechanics | \$62,130 | |
| * * | Industrial Machinery Mechanics First-Line Supervisors of Production & Operating Workers | \$62,130 | |
| * * * | Industrial Machinery Mechanics First-Line Supervisors of Production & Operating Workers chelor's Degree | \$62,130 \$64,250 | |
| * * Baa | Industrial Machinery Mechanics First-Line Supervisors of Production & Operating Workers chelor's Degree Mechanical Engineers | \$62,130 \$64,250 \$78,970 | |

ENGINEERING



Engineering & Applied Mathematics

Pathway

INTRODUCTORY LEVEL COURSES

- Chemistry
- Production Blueprint Reading
- Introduction to Engineering

TECHNICAL LEVEL COURSES

- Engineering Design
- Drafting/CAD
- Robotics
- Foundations of Electronics
- Principles of Applied Engineering

APPLICATION LEVEL COURSES

- Engineering Design and Development
- Digital Electronics
- Computer Integrated Manufacturing
- Civil Engineering and Architecture
- Aerospace Engineering
- Particular Topics in Engineering
- Emerging Technologies
- Project Management
- Materials Science and Engineering
- Workplace Experience in Engineering
- Workplace Experience

OCCUPATIONS

- Logisticians
- Engineers, All Other
- Mechanical Engineers
- Civil Engineers
- Industrial Engineers
- Electrical Engineers
- Aerospace Engineers
- Architectural and Engineering Managers

| 0 | ccupations & Degrees | Median Annual Wage |
|----|--|-----------------------|
| Ва | chelor's Degree | |
| * | Logisticians | \$56,530 |
| * | Engineers, All Other | \$69,570 |
| * | Mechanical Engineers | \$78,970 |
| * | Civil Engineers | \$79,870 |
| * | Industrial Engineers | \$82,710 |
| * | Electrical Engineers | \$95,970 |
| * | Aerospace Engineers | \$103,060 |
| * | Architectural and Engineering Managers | \$142,280 |

* High Demand, High Wage

Source: <u>Kansas Labor Information Center (KLIC) - Career Posters (ks.gov)</u>

HIGH SCHOOL ASSESSMENTS, CREDENTIALS, OR CERTIFICATIONS

individualized programs in engineering.

- CareerSafe: OSHA Safety Certification (10 Hour)
- NC3: Data Analytics/Harnessing the Power of Data
- ISCET: Associate Level CET Exam
- ISCET: Electronics Systems Associate (ESA) Exam

POSTSECONDARY CREDITS

Under the Excel in Career Technical Education Initiative, Kansas high school students qualify for state-funded college tuition in approved technical courses offered by Kansas technical and community colleges.

- Excel in CTE Initiative (SB155) kansasregents.org
- <u>Tiered Technical Courses ksde.org at Kansas</u> <u>Community and Technical Colleges</u>

POSTSECONDARY PROGRAMS

- Kansas DegreeStats Kansas Board of Regents ksdegreestats.org
- Degree Stats Lesson (ksde.org)
- K-TIP Report (kansasregents.org)
- Program Alignment (kansasregents.org)
- Kansas Post-Secondary Exploration Guide (ksde.org)

RESOURCES

- CTE Course Competencies and Indicators (ksde.org)
- <u>Cool Careers Episode 6: Electrical Process</u> <u>Engineer</u>
- <u>Electrical Process Engineer | HirePaths Help Your Kansas Kid Explore Careers</u>
- Cool Careers Episode 4: Robotics and Automation
- Cool Careers Episode 11: Pilot
- Cool Careers Episode 2: Drone Pilot
- Kansas Labor Information Center (KLIC) -Kansas Career Posters (ks.gov)
- <u>Today's Occupations: High Demand, High</u>
 <u>Wage Jobs < Bachelor's (ks.gov)</u>
- <u>International Society of Certified Electronics</u> <u>Technicians – Education Through Certification</u>

STUDENT ORGANIZATION

Skills USA Kansas





ENGINEERING



This pathway prepares individuals to apply mathematical and scientific principles to the design, development and operational evaluation of energy generation, storage, conversion, and distribution systems. It includes instruction in conventional and alternative/renewable energy systems, electrical power systems, and electrical system design.



INTRODUCTORY LEVEL COURSES

- Introduction to Energy
- Introduction to Environmental Science

TECHNICAL LEVEL COURSES

- Energy Industry Fundamentals
- Principles of Applied Engineering
- Fundamentals of Electricity and Electronics
- AP Environment Science
- Energy, Power and Society
- Wind Energy Operations
- Mechanical Power Transmission Systems
- Meteorology

APPLICATION LEVEL COURSES

- Research and Development for Energy
- Research and Development for Energy -Comprehensive
- Advanced Electricity and Electronics
- Materials Science in Engineering
- Hydraulics and Pneumatics
- HVAC Technology

OCCUPATIONS

- First-Line Supervisors of Mechanics, Installers, and Repairers
- Electrical Engineers

| 0 | ccupations & Degrees | Median Annual Wage |
|-----|---|-----------------------|
| H.: | S Diploma | |
| * | First-Line Supervisors of Mechanics, Installers, and Repairers | \$69,340 |
| Ва | chelor's Degree | |
| * | Electrical Engineers | \$95,970 |

* High Demand, High Wage

Source: Kansas Labor Information Center (KLIC) - Career Posters (ks.gov)

HIGH SCHOOL ASSESSMENTS, CREDENTIALS, OR CERTIFICATIONS

- CareerSafe: OSHA Safety Certification (10 Hour)
- NC3: Data Analytics/Harnessing the Power of Data
- ISCET: Associate Level CET Exam
- ISCET: Electronics Systems Associate (ESA) Exam

POSTSECONDARY CREDENTIALS

 Center for Energy Workforce Development: Energy Industry Fundamentals

POSTSECONDARY CREDITS

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- Excel in CTE Initiative (SB155) kansasregents.org
- <u>Tiered Technical Courses ksde.org at Kansas</u>
 <u>Community and Technical Colleges</u>

POSTSECONDARY PROGRAMS

- Kansas DegreeStats Kansas Board of Regents ksdegreestats.org
- Degree Stats Lesson (ksde.org)
- K-TIP Report (kansasregents.org)
- Program Alignment (kansasregents.org)
- Kansas Post-Secondary Exploration Guide (ksde.org)

RESOURCES

- CTE Course Competencies and Indicators (ksde.org)
- Cool Careers Episode 8: Wind Turbine Technician
- Wind Turbine Technician | HirePaths -Help Your Kansas Kid Explore Careers
- Kansas Labor Information Center (KLIC) -Kansas Career Posters (ks.gov)
- <u>Today's Occupations: High Demand, High</u>
 <u>Wage Jobs < Bachelor's (ks.gov)</u>
- International Society of Certified Electronics Technicians (ISCET)
- Center for Energy Workforce
 Development (CEWD)

STUDENT ORGANIZATION

Skills USA Kansas





Aviation Production

Pathway

INTRODUCTORY LEVEL COURSES

- Production Blueprint Reading
- Introduction to Industrial Technology

TECHNICAL LEVEL COURSES

- Hand and Power Tools
- Aviation

Fundamentals

Aviation Systems

Design Strand

Drafting/CAD

Production Strand

Mass Production I

APPLICATION LEVEL COURSES

Design Strand

- Workplace Experience
- Workplace Experience in Engineering
- Part Design
- Assembly Design
- Wireframe and Surfaces
- Aerospace Drawings
- Special Projects and Research in Aviation

Production Strand

- Tooling I
- Tooling II
- Aerostructures I
- Aerostructures II
- Composites I
- Composites II
- Workplace Experience in Engineering
- Workplace Experience

OCCUPATIONS

 Aircraft Structure, Surfaces, Rigging, and Systems Assemblers

| 0 | ccupations & Degrees | Median Annual Wage |
|-----|---|-----------------------|
| H.S | 5 Diploma | |
| * | Aircraft Structure, Surfaces, Rigging, and Systems Assemblers | \$61,500 |

* High Demand, High Wage

Source: Kansas Labor Information Center (KLIC) - Career Posters (ks.gov)

HIGH SCHOOL ASSESSMENTS, CREDENTIALS, OR CERTIFICATIONS

NC3: Data Analytics/Harnessing the Power of Data

This pathway generally prepares individuals to apply basic

engineering principles and technical skills in support of engineers

engaged in a wide variety of projects. It includes instruction in

various engineering support functions for research, production,

and operations, and applications to specific engineering specialties.

- ISCET: Associate Level CET Exam
- ISCET: Electronics Systems Associate (ESA) Exam

POSTSECONDARY CREDITS

Under the Excel in Career Technical Education Initiative, Kansas high school students qualify for state-funded college tuition in approved technical courses offered by Kansas technical and community colleges.

- Excel in CTE Initiative (SB155) kansasregents.org
- <u>Tiered Technical Courses ksde.org at Kansas</u> <u>Community and Technical Colleges</u>

POSTSECONDARY PROGRAMS

- Kansas DegreeStats Kansas Board of Regents ksdegreestats.org
- Degree Stats Lesson (ksde.org)
- K-TIP Report (kansasregents.org)
- Program Alignment (kansasregents.org)
- Kansas Post-Secondary Exploration Guide (ksde.org)

RESOURCES

- CTE Course Competencies and Indicators (ksde.org)
- Cool Careers Episode 14: Sheet Metal Mechanic
- Cool Careers Episode 4: Robotics and Automation
- Cool Careers Episode 11: Pilot
- Kansas Labor Information Center (KLIC) -Kansas Career Posters (ks.gov)
- Today's Occupations: High Demand, High Wage Jobs < Bachelor's (ks.gov)

STUDENT ORGANIZATION

Skills USA Kansas







Manufacturing

Manufacturing

Occupation Overview

| 0 | ccupations & Degrees | Median Annual Wage |
|--|---|----------------------------------|
| H.S. Diploma & Moderate-Term On-The-Job Training | | |
| * | Welders, Cutters, Solderers, & Brazers | \$47,080 |
| * | Inspectors, Testers, Sorters, Samplers, & Weighers | \$47,960 |
| * | Production, Planning, & Expediting Clerks | \$48,480 |
| * | Aircraft Structure, Surfaces, Rigging, & Systems Assemblers | \$61,500 |
| | 5. Diploma & Less Than 5 Years Work Experience or Long-Term -The-Job Training | |
| | | |
| * | Machinists | \$45,400 |
| * | Machinists Industrial Machinery Mechanics | \$45,400 \$62,130 |
| | | • |
| * | Industrial Machinery Mechanics | \$62,130 |
| * | Industrial Machinery Mechanics First-Line Supervisors of Production & Operating Workers | \$62,130 |
| * * Ba | Industrial Machinery Mechanics First-Line Supervisors of Production & Operating Workers chelor's Degree | \$62,130 \$64,250 |
| * * Ba | Industrial Machinery Mechanics First-Line Supervisors of Production & Operating Workers chelor's Degree Mechanical Engineers | \$62,130 \$64,250 \$78,970 |

Manufacturing

Pathway

INTRODUCTORY LEVEL COURSES

- Introduction to Welding
- Production Blueprint Reading
- Introduction to Industrial Technology

TECHNICAL LEVEL COURSES

- Agricultural Welding
- Robotics
- Welding Processes I
- Hand and Power Tools

Production Strand

- Production Methods I
- Machine Tool Technology
- Computer-Aided Machining (CAM) I
- Drafting/CAD
- Production Print Reading II

Maintenance Strand

- Mechanical Power Transmission Systems
- Foundations of Electronics

APPLICATION LEVEL COURSES

- Welding Processes II
- Agricultural Welding II
- Workplace Experience in Manufacturing
- Workplace Experience in Manufacturing
 Comprehensive

Production Strand

- Advanced Drafting/CAD
- Advanced Materials Technology
- Automated Integrated Systems
- Production Methods II
- Computer-Aid Machining (CAM) II

Maintenance Strand

- Sheet Metal Technology
- Remodeling and Building Maintenance
- HVAC Technology
- Plumbing Technology
- Electrical and Security Systems
- Digital Electronics
- Hydraulics and Pneumatics

OCCUPATIONS

- Coating, Painting, and Spraying Machine Setters, Operators, and Tenders
- Computer Numerically Controlled Tool Operators
- Machinists
- Welders, Cutters, Solderers, and Brazers
- Sheet Metal Workers
- Inspectors, Testers, Sorters, Samplers, and Weighers
- Production, Planning, and Expediting Clerks
- Industrial Machinery Mechanics
- Electrical and Electronic Engineering Technologists and Technicians
- First-Line Supervisors of Production and Operating Workers
- Industrial Production Managers

| Occupations & Degrees | | Median Annual Wage | |
|-----------------------|--|-----------------------|--|
| H. | S. Diploma | | |
| * | Coating, Painting, and Spraying Machine Setters, Operators, and Tenders | \$42,680 | |
| * | Computer Numerically Controlled Tool Operators | \$44,500 | |
| * | Machinists | \$45,400 | |
| * | Welders, Cutters, Solderers, and Brazers | \$47,080 | |
| * | Sheet Metal Workers | \$47,870 | |
| * | Inspectors, Testers, Sorters, Samplers, and Weighers | \$47,960 | |
| * | Production, Planning, and Expediting Clerks | \$48,480 | |
| * | Industrial Machinery Mechanics | \$62,130 | |
| * | First-Line Supervisors of Production and Operating Workers | \$64,250 | |
| As | sociate's Degree | | |
| * | Electrical and Electronic Engineering Technologists and Technicians | \$63,390 | |
| Вс | achelor's Degree | | |
| * | Industrial Production Managers | \$107,650 | |
| | | | |

* High Demand, High Wage

Source: Kansas Labor Information Center (KLIC) - Career Posters (ks.gov)

This pathway generally prepares individuals to apply technical

performing welding jobs, or printing various materials.

knowledge and skills in creating products using precision crafting

and technical illustration. People with careers in Manufacturing work

with machines, making or assembling electronic parts, constructing,

*Continued on next page

MANUFACTURING



Manufacturing

Pathway (Continued)

HIGH SCHOOL ASSESSMENTS, CREDENTIALS, OR CERTIFICATIONS

- American Design Drafting Association: Certified Drafter
- AHRI: Variety of HVAC Related Areas
- ASME Section 9 Standards (6G level)
- EPA: Section 608 handling & buying refrigerants)
- CareerSafe: OSHA Safety Certification (10 Hour)
- NC3: Data Analytics/Harnessing the Power of Data
- ISCET: Associate Level CET Exam
- ISCET: Electronics Systems Associate (ESA) Exam

POSTSECONDARY CREDENTIALS

- American Welding Society: Certification Level 1
- American Welding Society: SENSE Certification Level 1
- HVAC Excellence: Core & Air Conditioning, Gas Heat & Electrical
- HVAC Excellence:: Core & Light Commercial Air Conditioning, Gas Heat & Electrical
- HVAC Excellence: Core & Light Commercial Refrigeration & Electrical
- ICE: Core & Commercial Refrigeration
- ICE: Core & Light Commercial Air Conditioning & Heating
- ICE: Core & Residential Air Conditioning & Heating
- MSSC: Certified Production Technician (CPT)
- NATE: Core & Air Conditioning
- NATE: Core & Air Distribution
- NATE: Core & Air to Air Heat Pumps
- NATE: Core & Gas or Oil Furnaces
- NATE: Core & Light Commercial Refrigeration
- NCCER: Core & Electrical Level 1
- NCCER: Core & HVAC Levels 1 & 2
- NCCER: Core & Industrial Maintenance level 1
- NCCER: Core & Plumbing & Pipefitting Level 1
- NCCER Core & Sheet Metal Level 1
- NIMS: Machining Level 1
- NIMS: Metal Forming I
- SMRP: Certified Maintenance & Reliability Technician

POSTSECONDARY CREDITS

Under the Excel in Career Technical Education Initiative, Kansas high school students qualify for state-funded college tuition in approved technical courses offered by Kansas technical and community colleges.

- Excel in CTE Initiative (SB155) kansasregents.org
- <u>Tiered Technical Courses ksde.org at Kansas Community</u> <u>and Technical Colleges</u>

POSTSECONDARY PROGRAMS

- <u>Kansas DegreeStats Kansas Board of Regents ksdegreestats.org</u>
- Degree Stats Lesson (ksde.org)
- K-TIP Report (kansasregents.org)
- Program Alignment (kansasregents.org)
- Kansas Post-Secondary Exploration Guide (ksde.org)

RESOURCES

- CTE Course Competencies and Indicators (ksde.org)
- Cool Careers Episode 14: Sheet Metal Mechanic
- Sheet Metal Mechanic | HirePaths Help Your Kansas Kid Explore Careers
- Kansas Labor Information Center (KLIC) Kansas Career Posters (ks.gov)
- Today's Occupations: High Demand, High Wage Jobs < Bachelor's (ks.gov)
- Careers in Manufacturing at My Next Move
- International Society of Certified Electronics Technicians (ISCET)
- National Center for Construction Education & Research NCCER
- AWS SENSE Program (senseonline.org)

STUDENT ORGANIZATION

Skills USA Kansas







Transportation

Mobile Equipment Maintenance | Aviation Maintenance

Occupation Overview

| Occupations & Degrees Short-Term On-The-Job Training Median Annual Wa | | Median Annual Wage |
|---|--|-----------------------|
| | | |
| | Cleaners of Vehicles & Equipment | \$30,950 |
| | Tire Repairers & Changers | \$31,420 |
| Н.: | S. Diploma & Long-Term On-The-Job Training | |
| * | Automotive Body & Related Repairers | \$46,460 |
| * | Bus & Truck Mechanics & Diesel Engine Specialists | \$49,630 |
| * | Mobile Heavy Equipment Mechanics, Except Engines | \$57,530 |
| H.: | S. Diploma & Work Experience or Nondegree Award | |
| * | Automotive Services Technicians & Mechanics | \$42,060 |
| * | Aircraft Mechanics & Service Technicians | \$65,870 |
| * | First-Line Supervisors of Mechanics, Installers, & Repairers | \$69,340 |
| * | Transportation, Storage, & Distribution Managers | \$96,610 |



Mobile Equipment Maintenance

Pathway

INTRODUCTORY LEVEL COURSES

- Business Essentials
- Introduction to Industrial Technology
- Automotive Information
- Introduction to Transportation

TECHNICAL LEVEL COURSES

Technology Strand

- Entrepreneurship
- Alternative Power
- Small Engine and Powertrains I
- Engine Mechanical Repair
- Diesel Engine Technology

Technology Strand I

 General Service I Technology Strand II

- Electronic and Electrical Systems I
- Brakes I
- Drive Train Technology
- Engine Performance I
- Steering and Suspension I
- Mobile HVAC

Collision Strand

- Entrepreneurship
- Auto Collision I
- Auto Refinishing I

APPLICATION LEVEL COURSES

Technology Strand

- Small Engines and Powertrains II
- Workplace Experience in Transportation
- Workplace Experience in Transportation - Comprehensive Technology Strand I
- General Service II.
- General Service III Technology Strand II
- Electronics and Electrical Systems II
- Brakes II
- Engine Performance II
- Steering and Suspension II **Collision Strand**
- Workplace Experience in **Transportation**
- Workplace Experience in Transportation - Comprehensive
- Auto Collision II
- Auto Refinishing II

OCCUPATIONS

- Automotive Service Technician
- Automotive Body and Related Repairers
- Bus and Truck Mechanics and Diesel Engine Specialists
- Mobile Heavy Equipment Mechanics, Except

to do so.

- Aircraft Mechanics and Service Technicians
- First-Line Supervisors of Mechanics, Installers and Repairers
- Transportation, Storage, and Distribution Managers

| O | ccupations & Degrees | Median |
|----|--|----------------------|
| | | Annual Wage |
| Н. | S Diploma or Postsecondary Nondegree Award | |
| * | Automotive Service Technician | \$42,060 |
| * | Automotive Body and Related Repairers | \$46,460 |
| * | Bus and Truck Mechanics and Diesel | \$49,630 |
| | Engine Specialists | |
| * | Mobile Heavy Equipment Mechanics, | \$57,530 |
| | Except Engines | |
| * | Aircraft Mechanics and Service | \$65,870 |
| | Technicians | |
| * | First-Line Supervisors of Mechanics, | \$69,340 |
| | Installers and Repairers | |
| * | Transportation, Storage, and Distribution | \$96,610 |
| | Managers | |
| *H | igh Demand, High Wage | |
| * | Technicians First-Line Supervisors of Mechanics, Installers and Repairers Transportation, Storage, and Distribution Managers | \$69,340 \$96,610 |

This pathway generally prepares individuals to apply

technical knowledge and skills in mechanic and repair

technologies. Careers in the Mobile Equipment Pathway

transportation facilities, as well as the refueling of mobile

equipment. All transportation relies on equipment which

must function as designed, whenever needed. The people

in this pathway keep the equipment and machinery running

while looking for more efficient, safe, and cost-effective ways

include the maintenance, repair, and servicing of vehicles and

Source: Kansas Labor Information Center (KLIC) - Career Posters (ks.gov)

*Continued on next page



Mobile Equipment Maintenance

Pathway (Continued)

HIGH SCHOOL ASSESSMENTS, CREDENTIALS, OR CERTIFICATIONS

- EPA: Section 609 servicing motor vehicle air conditioners & for buying refrigerant
- CareerSafe: OSHA Safety Certification (10 Hour)
- NC3: Data Analytics/Harnessing the Power of Data
- ASE Student Certification (2 areas)

POSTSECONDARY CREDITS

Under the Excel in Career Technical Education Initiative, Kansas high school students qualify for state-funded college tuition in approved technical courses offered by Kansas technical and community colleges.

- Excel in CTE Initiative (SB155) kansasregents.org
- Tiered Technical Courses ksde.org at Kansas Community and Technical Colleges

POSTSECONDARY CREDENTIALS

- ASE: Automobile Service Technician
- ASE: Maintenance & Light Repair
- ASE: Master Automobile Service Technician
- ASE: Mechanical & Electrical
- ASE: Non-Structural Analysis & Damage Repair
- ASE: Painting & Refinishing
- ASE: Structural Analysis & Damage Repair
- ASE: Student Certification (4 areas)
- ASE: Student Certification Diesel (4 areas)
- I-CAR: Refinish Technician ProLevel 1

POSTSECONDARY PROGRAMS

- Kansas DegreeStats Kansas Board of Regents ksdegreestats.org
- Degree Stats Lesson (ksde.org)
- K-TIP Report (kansasregents.org)
- Program Alignment (kansasregents.org)
- Kansas Post-Secondary Exploration Guide (ksde.org)

RESOURCES

- <u>CTE Course Competencies and Indicators</u> (ksde.org)
- Cool Careers Episode 5: Heavy

Equipment Technician

• Cool Careers - Episode 12: Distribution

Support Specialist

• Kansas Labor Information Center (KLIC) -

Kansas Career Posters (ks.gov)

Today's Occupations: High Demand, High

Wage Jobs < Bachelor's (ks.gov)

Careers in Transportation, Distribution &

Logistics at My Next Move

Automotive Service (ASE) Entry Level

Student Certification

- Automotive Service Excellence (ASE)
- Inter-Industry Conference on Auto Collision Repair (I-CAR)

STUDENT ORGANIZATION

Skills USA Kansas



Technology Student Association



TRANSPORTATION



Aviation Maintenance

Pathway

INTRODUCTORY LEVEL COURSES

- Production Blueprint Reading
- Introduction to Industrial Technology

TECHNICAL LEVEL COURSES

- Hand and Power Tools
- Aviation Fundamentals
- Aviation Systems

Avionics Strand

Foundations of Electronics

Airframe Strand

- Production Method I
- Mechanical Power Transmission Systems

APPLICATION LEVEL COURSES

- Unmanned Aircraft Systems (UAS)
- Work Experience in Aviation
- Work Experience in Aviation -Comprehensive

Avionics Strand

- Digital Electronics
- AC Electronics
- DC Electronics

Airframe Strand

- Hydraulics and Pneumatics
- Flight Training

OCCUPATIONS

(ks.gov)

Aircraft Mechanics and Service Technicians

| Oc | cupations & Degrees | Median Annual Wage |
|---|--|-----------------------|
| Pos | tsecondary Nondegree Award | |
| * | Aircraft Mechanics and Service Technicians | \$65,870 |
| * High Demand, High Wage Source: Kansas Labor Information Center (KLIC) - Career Posters | | |

HIGH SCHOOL ASSESSMENTS, CREDENTIALS, OR CERTIFICATIONS

propeller and fan assemblies.

- NC3: Data Analytics/Harnessing the Power of Data
- ISCET: Associate Level CET Exam
- ISCET: Electronics Systems Associate (ESA) Exam

POSTSECONDARY CREDITS

Under the Excel in Career Technical Education Initiative, Kansas high school students qualify for state-funded college tuition in approved technical courses offered by Kansas technical and community colleges.

- Excel in CTE Initiative (SB155) kansasregents.org
- <u>Tiered Technical Courses ksde.org at Kansas</u>
 <u>Community and Technical Colleges</u>

POSTSECONDARY PROGRAMS

- Kansas DegreeStats Kansas Board of Regents ksdegreestats.org
- Degree Stats Lesson (ksde.org)
- K-TIP Report (kansasregents.org)
- Program Alignment (kansasregents.org)
- Kansas Post-Secondary Exploration Guide (ksde.org)

RESOURCES

This pathway generally prepares individuals to apply technical

knowledge and skills to repair, service, and maintain all types of

aircraft powerplant and related systems. It includes instruction

in engine inspection and maintenance, lubrication and cooling,

electrical and ignition systems, carburetion, fuels and fuel systems,

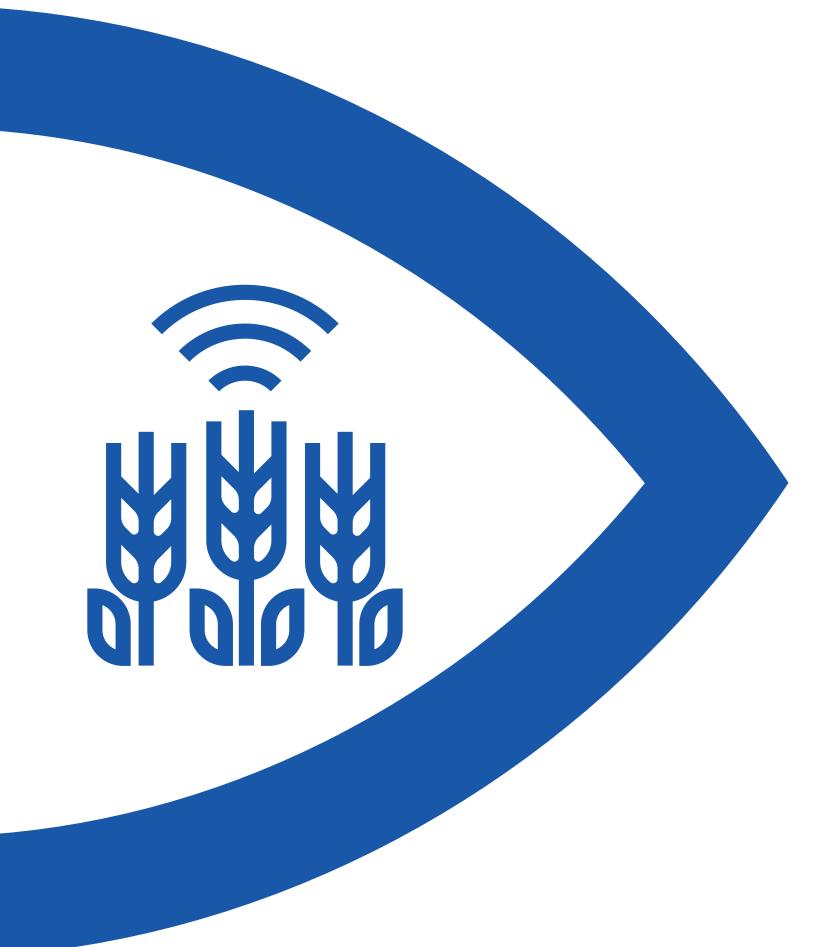
- CTE Course Competencies and Indicators (ksde.org)
- Kansas Labor Information Center (KLIC) -Kansas Career Posters (ks.gov)
- Today's Occupations: High Demand, High Wage Jobs < Bachelor's (ks.gov)
- <u>Search results for "aviation maintenance"</u> <u>at My Next Move</u>
- <u>International Society of Certified</u> <u>Electronics Technicians (ISCET)</u>

STUDENT ORGANIZATION

• Skills USA Kansas







Agriculture

Agriculture, Food & Natural Resources



Agriculture, Food & Natural Resources

Animal Science | Biotechnology in Agriculture | Comprehensive Agricultural Science | Agribusiness Systems | Food Products & Processing Systems | Natural Resources & Environmental Services Plant Systems | Power, Structural & Technical Systems

Occupation Overview

| Occupations & Degrees | Median Annual Wage |
|--|-----------------------|
| Short-Term On-The-Job Training | |
| Farmworkers & Laborers, Crop Nursery, & Greenhouse | \$29,990 |
| Landscaping & Groundskeeping Workers | \$33,160 |
| Farmworkers, Farm, Ranch, & Aquacultural Animals | \$34,400 |
| Meat, Poultry, & Fish Cutters & Trimmers | \$39,300 |
| Moderate to Long-Term On-The-Job Training | |
| Butchers & Meat Cutters | \$33,290 |
| Agricultural Equipment Operators | \$37,480 |
| Water & Wasteland Treatment Plant & System Operators | \$39,940 |
| H.S. Diploma & Work Experience | |
| 11.3. Dipionia a Work Experience | |

Source: Kansas Labor Information Center (KLIC) - Career Posters (ks.gov

AGRICULTURE, FOOD & NATURAL RESOURCES

Animal Science

Pathway



OR CERTIFICATIONS

CareerSafe: OSHA Safety Certification (10 Hour)

domestic farm animals.

- cPass: Animal Science Assessment
- Youth for the Quality Care of Animals: YQCA
- NC3: Data Analytics/Harnessing the Power of Data
- Dog Handler
- cPass: Comprehensive Agriculture Assessment

POSTSECONDARY ASSESSMENTS, CREDENTIALS, OR CERTIFICATIONS

- KS Dept. of Agriculture: KS Agriculture Skills & Competencies
- KS Dept. of Agriculture: Animal Science Skills and Competencies

POSTSECONDARY CREDITS

Under the Excel in Career Technical Education Initiative, Kansas high school students qualify for state-funded college tuition in approved technical courses offered by Kansas technical and community colleges.

- Excel in CTE Initiative (SB155) kansasregents.org
- <u>Tiered Technical Courses ksde.org at Kansas</u>
 <u>Community and Technical Colleges</u>

POSTSECONDARY PROGRAMS

- Kansas DegreeStats Kansas Board of Regents ksdegreestats.org
- <u>Degree Stats Lesson (ksde.org)</u>
- K-TIP Report (kansasregents.org)
- Kansas Post-Secondary Exploration Guide (ksde.org)

the breeding and husbandry of agricultural animals, and the production, processing, and distribution of agricultural animal products. It includes instruction in the animal sciences, animal husbandry and production, and agricultural and food products processing. An Animal Scientist conducts research in the genetics, nutrition, reproduction, growth, and development of

This pathway focuses on the scientific principles that underlie



INTRODUCTORY LEVEL COURSES

- Introduction to Agriculture
- Exploratory Agriculture

TECHNICAL LEVEL COURSES

- Agriscience
- Animal Science

APPLICATION LEVEL COURSES

- Advanced Animal Science
- Equine Science
- Small Animal Care
- Animal Health/Vet Tech
- Research in Agriculture
- Agricultural Entrepreneurship
- Agricultural Leadership and Communications
- Advanced Internship
- Agricultural Business
- Internship

OCCUPATIONS

- Agricultural Educators
- Agricultural Engineer
- Analytical Chemist
- Animal Biotechnologist: Reproductive or Nutritional Specialist
- Animal Breeder
- Animal Caretaker
- Animal Geneticist
- Dairy Farm Manager

- Extension Agent
- Feed Mill Operator
- Livestock producer
- Livestock Inspectors
- Nutrient Management
- Ranch Manager
- Small Animal Veterinarian
- USDA Inspector
- Veterinary Assistants
- Veterinary Technician

AgExplorer | National FFA Organization

CCFrame-AgricultureFoodandNatResources.pdf (careertech.org)

| Occupations & Degrees | Median Annual Wage |
|---|-----------------------|
| High School Diploma and Short-Term On-the-Job Training | |
| Animal Caretakers | \$26,970 |
| Farmworkers, Farm, Ranch, and Aquacultural Animals | \$32,390 |
| Veterinary Assistants and Laboratory Animal Caretakers | \$32,760 |
| Associates Degree | |
| Veterinary Technologists and Technicians | \$37,350 |
| High School Diploma plus Five Years Work Experience | |
| Farmers, Ranchers, & Other Agricultural Managers | \$76,570 |

RESOURCES

- CTE Course Competencies and Indicators (ksde.org)
- <u>Dairy Farmer</u> | <u>HirePaths Help Your</u>
 <u>Kansas Kid Explore Careers</u>
- Kansas Labor Information Center (KLIC) - Kansas Career Posters (ks.gov)
- <u>Today's Occupations: High Demand,</u> <u>High Wage Jobs < Bachelor's (ks.gov)</u>
- Careers in Agriculture, Food & Natural Resources at My Next Move

STUDENT ORGANIZATION



AGRICULTURE, FOOD & NATURAL RESOURCES

This pathway generally focuses on the application of the biological sciences, biochemistry, and genetics to the preparation of new and enhanced agricultural, environmental, clinical, and industrial products.



Biotechnology in Agriculture

INTRODUCTORY LEVEL COURSES

Introduction to Agriculture

Pathway

Exploratory Agriculture

TECHNICAL LEVEL COURSES

- Agriscience
- Agricultural Food Science
- Animal Science
- Biotechnology in Agriculture
- Horticulture
- Plant and Soil Science

APPLICATION LEVEL COURSES

- Agricultural Business
- Agricultural Entrepreneurship
- Agricultural Leadership and Communications
- Applications in Biotechnology
- Research in Agriculture
- Internship
- Advanced Internship

OCCUPATIONS

- Cell culture technician
- Research specialist
- Plant biologist
- Biochemist
- Renewable energy researcher
- Biofuels technician

Occupations & Degrees

All levels of education are needed for these careers, but the more science-based jobs will require a minimum of a bachelor's degree in a related field. Some will require more advanced degrees and research experience. Colleges are beginning to add biotechnology-specific degree programs. On-the-job training and basic certifications are also required for these positions.

Source: Career Overview: Biotechnology Systems Jobs | National FFA Organization

HIGH SCHOOL ASSESSMENTS, CREDENTIALS, OR CERTIFICATIONS

- CareerSafe: OSHA Safety Certification (10 Hour)
- cPass: Animal Science Assessment
- cPass: Comprehensive Agriculture Assessment
- NC3: Data Analytics/Harnessing the Power of Data

POSTSECONDARY ASSESSMENTS, CREDENTIALS, OR CERTIFICATIONS

 KS Dept. of Agriculture: KS Agriculture Skills & Competencies

RESOURCES

- <u>CTE Course Competencies and Indicators</u> (ksde.org)
- Kansas Labor Information Center (KLIC) -Kansas Career Posters (ks.gov)
- <u>Today's Occupations: High Demand, High</u>
 <u>Wage Jobs < Bachelor's (ks.gov)</u>
- Careers in Agriculture, Food & Natural Resources at My Next Move

STUDENT ORGANIZATION



AGRICULTURE, FOOD & NATURAL RESOURCES

Comprehensive Agricultural Science

Pathway

INTRODUCTORY LEVEL COURSES

- Introduction to Agriculture
- Exploratory Agriculture

TECHNICAL LEVEL COURSES

- Agriscience
- Horticulture
- Plant and Soil Science
- Animal Science
- Plant and Animal Science
- Agricultural Food Science
- Biotechnology in Agriculture
- Natural Resource Management

APPLICATION LEVEL COURSES

- Internship
- Advanced Internship
- Agricultural Business
- Agricultural Entrepreneurship
- Agricultural Leadership and Communications
- Research in Agriculture
- Advanced Plant and Science Science

OCCUPATIONS

- Agricultural Economist
- Agriculture Entrepreneurship
- Agriculture Sales Manager
- Farm Manager
- Ranch Management

| Occupations & Degrees | | Median Annual Wage |
|-----------------------|---|-----------------------|
| | gh School Diploma plus Five Years ork Experience | |
| * | Farmers, Ranchers, and Other Agricultural Managers | \$76,570 |

* High Demand, High Wage

Source: Kansas Labor Information Center (KLIC) - Career Posters (ks.gov)

HIGH SCHOOL ASSESSMENTS, CREDENTIALS, OR CERTIFICATIONS

Natural Resource settings.

- NSTMOP: Tractor Safety
- CareerSafe: OSHA Safety Certification (10 Hour)
- NC3: Data Analytics/Harnessing the Power of Data
- cPass: Comprehensive Agriculture Assessment
- KS Restaurant & Hospitality: ServSafe Food Handlers
- KS Livestock Association: Beef Quality Assurance

POSTSECONDARY ASSESSMENTS, CREDENTIALS, OR CERTIFICATIONS

- KS Dept. of Revenue: Commercial Driver's License
- KS Dept. of Agriculture: KS Agriculture Skills & Competencies
- KS Dept. of Agriculture: Pesticide Applicator (Personal or Commercial)

POSTSECONDARY CREDITS

Under the Excel in Career Technical Education Initiative, Kansas high school students qualify for state-funded college tuition in approved technical courses offered by Kansas technical and community colleges.

- Excel in CTE Initiative (SB155) kansasregents.org
- <u>Tiered Technical Courses ksde.org at Kansas Community and Technical Colleges</u>

POSTSECONDARY PROGRAMS

- Kansas DegreeStats Kansas Board of Regents ksdegreestats.org
- Degree Stats Lesson (ksde.org)
- K-TIP Report (kansasregents.org)
- Kansas Post-Secondary Exploration Guide (ksde.org)

RESOURCES

This pathway encompasses the study of the broad-based

knowledge and skills needed in all AFNR (Agriculture, Food,

and Natural Resource) professions. Students completing a

knowledge of Agricultural systems and the skills necessary

for the application of technologies; safety, health and

program of study in this pathway will demonstrate fundamental

environmental practices; stewardship of natural resources; and

exploration of career opportunities in Agriculture, Food, and

- CTE Course Competencies and Indicators (ksde.org)
- Kansas Labor Information Center (KLIC) - Kansas Career Posters (ks.gov)
- <u>Today's Occupations: High Demand,</u>
 <u>High Wage Jobs < Bachelor's (ks.gov)</u>
- Careers in Agriculture, Food & Natural Resources at My Next Move

STUDENT ORGANIZATION



AGRICULTURE, FOOD & NATURAL RESOURCES

This pathway generally encompasses the study of agribusinesses and their management. Students completing a program of study in this pathway will demonstrate competence in the application of principles and techniques for the planning, development, application and management of agribusiness systems in Agriculture, Food, and Natural



Agribusiness Systems

Pathway

INTRODUCTORY LEVEL COURSES

- Introduction to Agriculture
- Exploratory Agriculture

TECHNICAL LEVEL COURSES

- Agriscience
- Agribusiness

APPLICATION LEVEL COURSES

- Internship
- Advanced Internship
- Applications in Agribusiness
- Agricultural Entrepreneurship
- Agricultural Leadership and Communications
- Research in Agriculture

OCCUPATIONS

- Farmers, Ranchers, and Other Agricultural Managers
- Buyers and Purchasing Agents, Farm Products

| 0 | ccupations & Degrees | Median Annual Wage |
|----|---|-----------------------|
| Н. | S. Diploma | |
| | Farmers, Ranchers, and Other Agricultural Managers | \$72,990 |
| Ва | ichelor's Degree | |
| | Buyers and Purchasing Agents, Farm Products | \$62,840 |
| | | |

Source: <u>Kansas Labor Information Center (KLIC) - Career Posters</u> (<u>ks.gov</u>)

HIGH SCHOOL ASSESSMENTS, CREDENTIALS, OR CERTIFICATIONS

Resource settings.

- CareerSafe: OSHA Safety Certification (10 Hour)
- NC3: Data Analytics/Harnessing the Power of Data
- cPass: Comprehensive Agriculture Assessment

POSTSECONDARY ASSESSMENTS, CREDENTIALS, OR CERTIFICATIONS

• KS Dept. of Agriculture: KS Agriculture Skills & Competencies

POSTSECONDARY CREDITS

Under the Excel in Career Technical Education Initiative, Kansas high school students qualify for state-funded college tuition in approved technical courses offered by Kansas technical and community colleges.

- Excel in CTE Initiative (SB155) kansasregents.org
- <u>Tiered Technical Courses ksde.org at Kansas Community and Technical Colleges</u>

POSTSECONDARY PROGRAMS

- Kansas DegreeStats Kansas Board of Regents ksdegreestats.org
- Degree Stats Lesson (ksde.org)
- K-TIP Report (kansasregents.org)
- Kansas Post-Secondary Exploration Guide (ksde.org)

RESOURCES

- CTE Course Competencies and Indicators (ksde.org)
- Kansas Labor Information Center (KLIC) - Kansas Career Posters (ks.gov)
- Today's Occupations: High Demand, High Wage Jobs < Bachelor's (ks.gov)
- Careers in Agriculture, Food & Natural Resources at My Next Move

STUDENT ORGANIZATION



AGRICULTURE, FOOD & NATURAL RESOURCES

Food Products & Processing Systems Pathway

This pathway generally encompasses the study of food nutrition, biology, microbiology, and chemistry food systems; and processing for storage, distribution and consumption. Students completing a program of study in this pathway will demonstrate competence in the application of principles and techniques for the development, application and management of food products and processing systems in Agriculture, Food, and Natural Resource settings.



INTRODUCTORY LEVEL COURSES

- Introduction to Agriculture
- Exploratory Agriculture

TECHNICAL LEVEL COURSES

- Agriscience
- Horticulture
- Plant and Soil Science
- Animal Science
- Agricultural Food Science
- Food Science

APPLICATION LEVEL COURSES

- Internship
- Advanced Internship
- Agricultural Business
- Agricultural Entrepreneurship
- Agricultural Leadership and Communications
- Research in Agriculture
- Advanced Food Science

OCCUPATIONS

- Food Scientists
- Food Safety Specialist
- Food Production Supervisor
- Meat, Poultry, and Fish Cutters and Trimmers
- Product Development Food Scientist

| 0 | ccupations & Degrees | Median Annual Wage |
|------------|---|-----------------------|
| | S. Diploma and Short-term to ng-Term on-the-job Training | |
| | Butchers and Meat Cutters | \$36,640 |
| | Meat, Poultry, and Fish Cutters and Trimmers | \$43,790 |
| * | Meat Packers | \$45,450 |
| Вс | achelor's Degree | |
| | Buyers and Purchasing Agents, Farm Products | \$62,840 |
| * - | ligh Demand, High Wage | |

High Demand, High Wage

Source: Kansas Labor Information Center (KLIC) - Career Posters (ks.gov)

HIGH SCHOOL ASSESSMENTS, CREDENTIALS, OR **CERTIFICATIONS**

- CareerSafe: OSHA Safety Certification (10 Hour)
- NC3: Data Analytics/Harnessing the Power of Data
- KS Restaurant & Hospitality: ServSafe Food Handlers
- cPass: Comprehensive Agriculture Assessment

POSTSECONDARY ASSESSMENTS, CREDENTIALS, OR **CERTIFICATIONS**

• KS Dept. of Agriculture: KS Agriculture Skills & Competencies

POSTSECONDARY CREDITS

Under the Excel in Career Technical Education Initiative, Kansas high school students qualify for state-funded college tuition in approved technical courses offered by Kansas technical and community colleges.

- Excel in CTE Initiative (SB155) kansasregents.org
- <u>Tiered Technical Courses ksde.org at Kansas Community and</u> **Technical Colleges**

POSTSECONDARY PROGRAMS

- Kansas DegreeStats Kansas Board of Regents ksdegreestats.org
- Degree Stats Lesson (ksde.org)
- K-TIP Report (kansasregents.org)
- Kansas Post-Secondary Exploration Guide (ksde.org)

RESOURCES

- CTE Course Competencies and <u>Indicators (ksde.org)</u>
- Kansas Labor Information Center (KLIC) - Kansas Career Posters (ks.gov)
- Today's Occupations: High Demand, <u>High Wage Jobs < Bachelor's (ks.gov)</u>
- Careers in Agriculture, Food & Natural Resources at My Next Move

STUDENT ORGANIZATION



AGRICULTURE, FOOD & NATURAL RESOURCES

Natural Resources & Environmental Services

This pathway encompasses the study of the management and improvement of soil, water, wildlife, forests and air as natural resources. Students completing a program of study in this pathway will demonstrate competence in the application of principles and techniques for the development, application and management of natural resource systems in Agriculture, Food, and Natural Resource settings.



INTRODUCTORY LEVEL COURSES

Pathway

- Introduction to Agriculture
- Exploratory Agriculture

TECHNICAL LEVEL COURSES

- Agriscience
- Natural Resources Management

APPLICATION LEVEL COURSES

- Internship
- Advanced Internship
- Agricultural Business
- Agricultural Entrepreneurship
- Agricultural Leadership and Communications
- Research in Agriculture
- Environmental Resources and Wildlife Science

OCCUPATIONS

- Conservation Scientist
- Environmental Engineer
- Fish and Game Officer
- Fish Hatchery Manager
- Forester
- Geologist
- Water and Wastewater Treatment Plant and System Operators
- Wildlife Biologist
- Wildlife Manager

| Occupations & Degrees | | Median Annual Wage |
|--|---|-----------------------|
| H.S. Diploma and Long-Term On- the-Job Training | | |
| * | Water and Wastewater Treatment Plant and System Operators | \$45,960 |

^{*} High Demand, High Wage

Source: <u>Kansas Labor Information Center (KLIC) - Career Posters</u> (ks.gov)

HIGH SCHOOL ASSESSMENTS, CREDENTIALS, OR CERTIFICATIONS

- CareerSafe: OSHA Safety Certification (10 Hour)
- NC3: Data Analytics/Harnessing the Power of Data
- cPass: Comprehensive Agriculture Assessment

POSTSECONDARY ASSESSMENTS, CREDENTIALS, OR CERTIFICATIONS

- KS Dept. of Agriculture: KS Agriculture Skills & Competencies
- KS Dept. of Agriculture: Pesticide Applicator (Personal or Commercial)

POSTSECONDARY CREDITS

Under the Excel in Career Technical Education Initiative, Kansas high school students qualify for state-funded college tuition in approved technical courses offered by Kansas technical and community colleges.

- Excel in CTE Initiative (SB155) kansasregents.org
- <u>Tiered Technical Courses ksde.org at Kansas Community and Technical Colleges</u>

POSTSECONDARY PROGRAMS

- Kansas DegreeStats Kansas Board of Regents ksdegreestats.org
- Degree Stats Lesson (ksde.org)
- K-TIP Report (kansasregents.org)
- Kansas Post-Secondary Exploration Guide (ksde.org)

RESOURCES

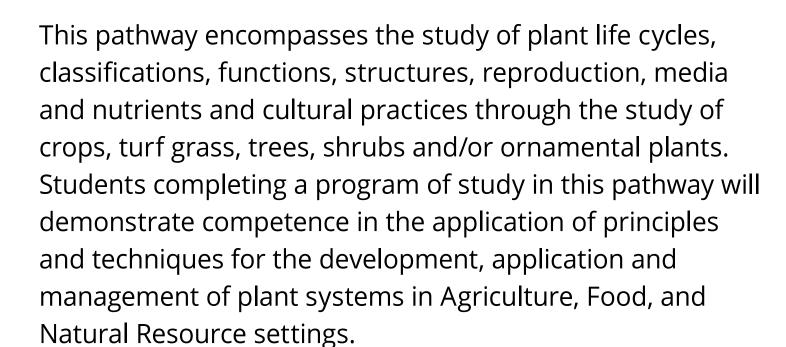
- CTE Course Competencies and Indicators (ksde.org)
- Kansas Labor Information Center (KLIC) - Kansas Career Posters (ks.gov)
- Today's Occupations: High Demand, High Wage Jobs < Bachelor's (ks.gov)
- Careers in Agriculture, Food & Natural Resources at My Next Move

STUDENT ORGANIZATION



Plant Systems

Pathway





INTRODUCTORY LEVEL COURSES

- Introduction to Agriculture
- Exploratory Agriculture

TECHNICAL LEVEL COURSES

- Agriscience
- Horticulture
- Plant and Soil Science

APPLICATION LEVEL COURSES

- Internship
- Advanced Internship
- Floriculture and Greenhouse Management
- Applications in Horticulture
- Crop and Range Management
- Agricultural Business
- Agricultural Entrepreneurship
- Agricultural Leadership and Communications
- Research in Agriculture

OCCUPATIONS

- Agronomist
- Crop Advisor
- Custom Applicator
- Farmer
- Feed Mill Manager
- Food Scientist

- Grain Elevator Manager
- Horticulturist
- Landscape Designer
- Landscape Technician
- Plant Biologist
- f latit blologist
- Soil and Water Specialists

| 0 | ccupations & Degrees | Median Annual Wage |
|--|---|-----------------------|
| H.S. Diploma plus short-term to long-term on- the-job work experience | | |
| | Farmworkers and Laborers, Crop, Nursery, and Greenhouse | \$36,640 |
| | Landscaping and Groundskeeping Workers | \$37,510 |
| * | First-Line Supervisors of Landscaping, Lawn Service, and Groundskeeping Workers | \$57,250 |
| * | Farmers, Ranchers, and Other Agricultural Managers | \$72,990 |
| Вс | achelor's Degree | |
| * | Biological Technicians | \$47,140 |
| | | I. |

^{*} High Demand, High Wage

Source: <u>Kansas Labor Information Center (KLIC) - Career Posters (ks.gov)</u> <u>Kansas Labor Information Center (KLIC) - High Demand Occupations (ks.gov)</u>

HIGH SCHOOL ASSESSMENTS, CREDENTIALS, OR CERTIFICATIONS

- NSTMOP: Tractor Safety
- CareerSafe: OSHA Safety Certification (10 Hour)
- NC3: Data Analytics/Harnessing the Power of Data
- cPass: Plant Systems Assessment
- cPass: Comprehensive Agriculture Assessment

POSTSECONDARY ASSESSMENTS, CREDENTIALS, OR CERTIFICATIONS

- KS Dept. of Agriculture: KS Agriculture Skills & Competencies
- KS Dept. of Agriculture: Pesticide Applicator (Personal or Commercial)

POSTSECONDARY CREDITS

Under the Excel in Career Technical Education Initiative, Kansas high school students qualify for state-funded college tuition in approved technical courses offered by Kansas technical and community colleges.

- Excel in CTE Initiative (SB155) kansasregents.org
- <u>Tiered Technical Courses ksde.org at Kansas Community and Technical Colleges</u>

POSTSECONDARY PROGRAMS

- Kansas DegreeStats Kansas Board of Regents ksdegreestats.org
- Degree Stats Lesson (ksde.org)
- K-TIP Report (kansasregents.org)
- Kansas Post-Secondary Exploration Guide (ksde.org)

RESOURCES

- CTE Course Competencies and Indicators (ksde.org)
- Agronomist | HirePaths Help Your Kansas Kid Explore Careers
- Cool Careers Episode 15: Agronomist
- Kansas Labor Information Center (KLIC) - Kansas Career Posters (ks.gov)
- Today's Occupations: High Demand, High Wage Jobs < Bachelor's (ks.gov)
- Careers in Agriculture, Food & Natural Resources at My Next Move

STUDENT ORGANIZATION



AGRICULTURE, FOOD & NATURAL RESOURCES

Power, Structural & Technical Systems Pathway

This pathway encompasses the study of agricultural equipment, power systems, precision technology, welding and project planning for agricultural structures. Students completing a program of study in this pathway will demonstrate competence in the application of principles and techniques for the development, application and management of power, structural and technical systems in Agriculture, Food, and Natural Resource settings.



INTRODUCTORY LEVEL COURSES

- Introduction to Agriculture
- Exploratory Agriculture

TECHNICAL LEVEL COURSES

- Agriscience
- Agricultural Mechanics
- Agricultural Welding I
- Small Engines

APPLICATION LEVEL COURSES

- Internship
- Advanced Internship
- Agricultural Business
- Agricultural Entrepreneurship
- Agricultural Leadership and Communications
- Research in Agriculture
- Advanced Agricultural Mechanics
- Agricultural Structures
- Agricultural Welding II
- Agricultural Fabrication
- Advanced Agricultural Power

OCCUPATIONS

- Agricultural engineer
- Agricultural equipment operator
- Diesel technician
- Electronics system technician
- GIS specialist
- Land surveyor
- Farm equipment technician
- Contractor/builder
- Welder

<u>Career Overview: Power, Structural and Technical Systems | National FFA Organization</u>

<u>CCFrame-AgricultureFoodandNatResources.pdf (careertech.org)</u>

| 0 | ccupations & Degrees | Median Annual Wage |
|---|--|-----------------------|
| | S. Diploma plus moderate on-the- b training | |
| | Agricultural Equipment Operators | \$43,160 |
| * | Welders, Cutters, Solderers, and Brazers | \$48,150 |

* High Demand, High Wage

Source: <u>Kansas Labor Information Center (KLIC) - Career Posters (ks.gov)</u>

HIGH SCHOOL ASSESSMENTS, CREDENTIALS, OR CERTIFICATIONS

- NSTMOP: Tractor Safety
- CareerSafe: OSHA Safety Certification (10 Hour)
- NC3: Data Analytics/Harnessing the Power of Data
- cPass: Comprehensive Agriculture Assessment

POSTSECONDARY ASSESSMENTS, CREDENTIALS, OR CERTIFICATIONS

- American Welding Society: SENSE Certification Level 1
- KS Dept. of Revenue: Commercial Driver's License
- KS Dept. of Agriculture: KS Agriculture Skills & Competencies

POSTSECONDARY CREDITS

Under the Excel in Career Technical Education Initiative, Kansas high school students qualify for state-funded college tuition in approved technical courses offered by Kansas technical and community colleges.

- Excel in CTE Initiative (SB155) kansasregents.org
- <u>Tiered Technical Courses ksde.org at Kansas Community and Technical Colleges</u>

POSTSECONDARY PROGRAMS

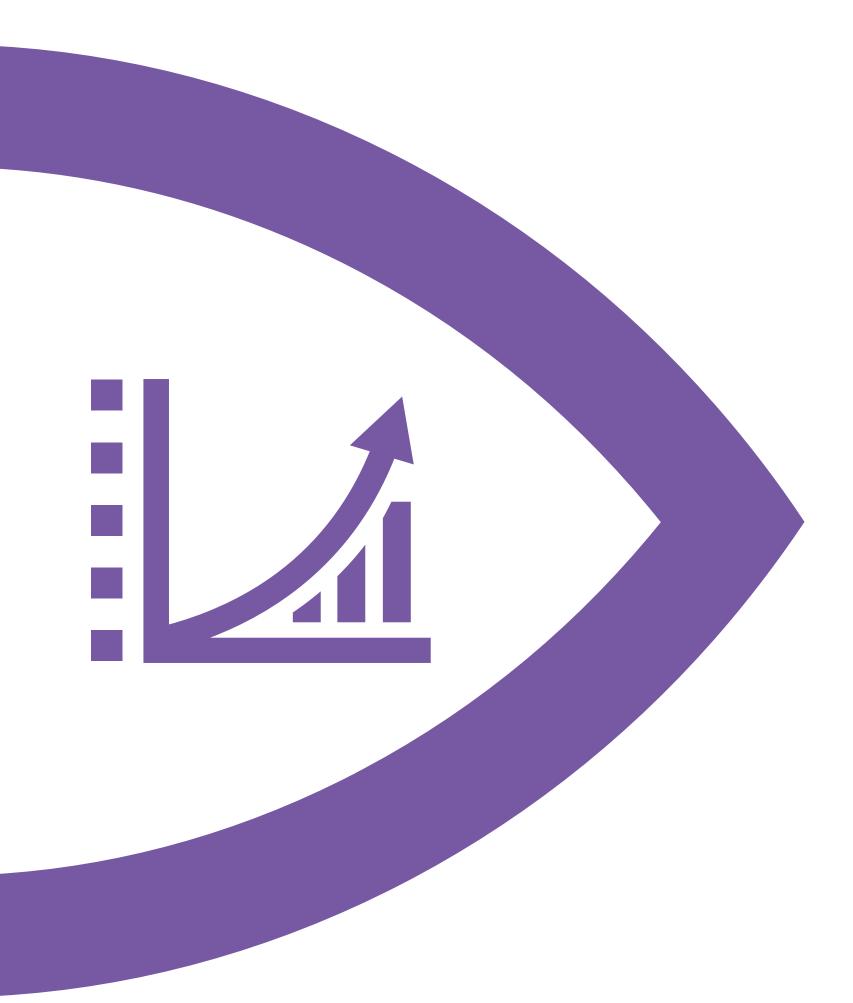
- Kansas DegreeStats Kansas Board of Regents ksdegreestats.org
- Degree Stats Lesson (ksde.org)
- K-TIP Report (kansasregents.org)
- Kansas Post-Secondary Exploration Guide (ksde.org)

RESOURCES

- CTE Course Competencies and Indicators (ksde.org)
- Kansas Labor Information Center (KLIC) - Kansas Career Posters (ks.gov)
- Today's Occupations: High Demand, High Wage Jobs < Bachelor's (ks.gov)
- Cool Careers Episode 9: Welder
- Careers in Agriculture, Food & Natural Resources at My Next Move

STUDENT ORGANIZATION





Business

Marketing
Finance
Business Management & Administration



Marketing

Marketing

Occupation Overview

| Occupations & Degrees Short-Term On-The-Job Training | | Median Annual Wage |
|---|--|-----------------------|
| | | |
| | Cashiers | \$24,600 |
| | Retail Salesperson | \$28,500 |
| | Counter and Rental Clerks | \$35,630 |
| Н. | S. Diploma & Moderate-Term On-The-Job Training | |
| * | Real Estate Agents | \$37,100 |
| * | Sales Representatives of Services, Except Advertising, Insurance, Financial Services, & Travel | \$61,720 |
| * | Sales Representatives, Wholesale & Manufacturing, Except Technical & Scientific Products | \$68,840 |
| H.: | S. Diploma & Work Experience or Nondegree Award | |
| * | Public Relations Specialists | \$57,510 |
| * | Market Research Analysts & Marketing Specialists | \$58,640 |
| * | Marketing Managers | \$127,630 |
| * | Sales Managers | \$133,360 |

MARKETING

Marketing

Pathway

INTRODUCTORY LEVEL COURSES

Business Essentials

TECHNICAL LEVEL COURSES

- Business Communications
- Principles of Marketing
 Optional Supportive Courses
- Graphic Design
- Web Page Design
- Computer Graphics
- Business Management
- Entrepreneurship
- IB Business and Management
- Accounting
- Business Economics
- Sports/Entertainment Marketing
- Principles of Advertising
- Advanced Spreadsheet Applications
- Digital Marketing

APPLICATION LEVEL COURSES

- Marketing Applications
 Optional Supportive Courses
- Marketing Management
- Integrated Marketing Applications
- Marketing Research
- Marketing Workplace Experience
- Advanced Marketing Workplace Experience
- Marketing Communications

OCCUPATIONS

- First-Line Supervisors of Retail Sales Workers
- Property, Real Estate, and Community Association Managers
- Sales Representatives of Services, Except Advertising, Insurance, Financial Services, and Travel
- Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products

- Public Relations Specialists
- Market Research Analysts and Marketing Specialists
- Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products
- Marketing Managers
- Sales Managers

| 0 | ccupations & Degrees | Median Annual Wage |
|----|---|-----------------------|
| Н. | S. Diploma | |
| * | First-Line Supervisors of Retail Sales Workers | \$44,570 |
| * | Property, Real Estate, and Community Association Managers | \$46,410 |
| * | Sales Representatives of Services, Except Advertising, Insurance, Financial Services, and Travel | \$61,720 |
| * | Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products | \$68,840 |
| Вс | achelor's Degree | |
| * | Public Relations Specialists | \$57,510 |
| * | Market Research Analysts and Marketing Specialists | \$58,640 |
| * | Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products | \$101,600 |
| * | Marketing Managers | \$127,630 |
| * | Sales Managers | \$133,360 |
| | High Demand, High Wage urce: <u>Kansas Labor Information Center (KLIC) - Career Posters (ks.gov</u>) | |

HIGH SCHOOL ASSESSMENTS, CREDENTIALS, OR CERTIFICATIONS

- Adobe: Campaign Business Practitioner
- Adobe: Dreamweaver
- Adobe: Illustrator
- Adobe: Media Optimizer
- CareerSafe: OSHA Safety Certification (10 Hour)
- Intuit: QuickBooks Certified User

This pathway generally prepares individuals to provide analytical descriptions of consumer

behavior patterns and market environments to marketing managers and other business

decision-makers. It includes instruction in survey research methods, research design, new

product test marketing, exploratory marketing, consumer needs and preferences analysis,

collect and analyze many different types of information to design new products, to predict

future sales and to position their own company's strategies against those of its competitors.

geographic analysis, and applications to specific products and markets. Employees in

marketing research are concerned with understanding people and organizations. They

- MBA Research (ASK): Fundamental Marketing Concepts
- Microsoft (MOS) Excel
- Microsoft (MOS) PowerPoint
- Microsoft (MOS): Access
- Microsoft (MOS) Word
- MBA Research (ASK): Marketing program of study exam
- NC3: Data Analytics/Harnessing the Power of Data
- Google: Analytics
- Facebook: Blueprint

POSTSECONDARY CREDITS

Under the Excel in Career Technical Education Initiative, Kansas high school students qualify for state-funded college tuition in approved technical courses offered by Kansas technical and community colleges.

- Excel in CTE Initiative (SB155) kansasregents.org
- <u>Tiered Technical Courses ksde.org at Kansas Community</u> <u>and Technical Colleges</u>

POSTSECONDARY PROGRAMS

- Kansas DegreeStats Kansas Board of Regents ksdegreestats.org
- Degree Stats Lesson (ksde.org)
- K-TIP Report (kansasregents.org)
- Kansas Post-Secondary Exploration Guide (ksde.org)

RESOURCES

- CTE Course Competencies and Indicators (ksde.org)
- Kansas Labor Information Center (KLIC) - Kansas Career Posters (ks.gov)
- <u>Today's Occupations: High Demand,</u>
 <u>High Wage Jobs < Bachelor's (ks.gov)</u>
- <u>Careers in Information Technology at</u>
 <u>My Next Move</u>

STUDENT ORGANIZATION

• Future Business Leaders of America



Kansas DECA



• Business Professionals of America





Finance

Business Finance

Occupation Overview

| Occupations & Degrees | | Median Annual Wage |
|-----------------------|--|-----------------------|
| Н.: | S. Diploma & Short-Term On-The-Job Training | |
| | Tellers | \$31,760 |
| * | Loan Interviewers & Clerks | \$45,390 |
| Н.: | S. Diploma & Moderate to Long-Term On-The-Job Training | |
| * | Bill & Account Collectors | \$38,950 |
| * | Insurance Claims & Policy Processing Clerks | \$46,090 |
| * | Payroll & Timekeeping Clerks | \$47,530 |
| * | Insurance Sales Agents | \$59,000 |
| * | Claims Adjusters, Examiners, & Investigators | \$72,180 |
| Ва | chelor's Degree | |
| * | Accountants & Auditors | \$70,170 |
| * | Loan Officers | \$77,180 |
| * | Personal Finance Advisors | \$79,070 |
| * | Financial Managers | \$130,800 |

FINANCE

Business Finance

Pathway

INTRODUCTORY LEVEL COURSES

Business Essentials

TECHNICAL LEVEL COURSES

Accounting

Optional Supportive Courses

- Business Economics
- Business Communications
- Business Law
- Entrepreneurship
- Advanced Spreadsheet Applications

APPLICATION LEVEL COURSES

Financial Institutions and Services Strand

- Banking and Finance
- Investing
- Risk Management and Insurance Accounting Strand
- Advanced Accounting
- College Accounting

Optional Supportive Courses

- Finance Workplace Experience
- Finance Workplace Experience
- Advanced Finance Workplace Experience

OCCUPATIONS

- Loan Interviewers and Clerks
- Insurance Claims and Policy Processing Clerks
- Payroll and Timekeeping Clerks
- Insurance Sales Agents
- Claims Adjusters, Examiners, and Investigators
- Compliance Officers
- Buyers and Purchasing Agents

- Securities, Commodities, and Financial Services Sales Agents
- Financial and Investment Analysts,
 Financial Risk Specialists, and Financial Specialists, All Other
- Accountants and Auditors
- Loan Officers
- Personal Financial Advisors
- Financial Managers

| Occupations & Degrees | | Median Annual Wage | |
|-----------------------|---|-----------------------|--|
| Н. | H.S. Diploma | | |
| * | Loan Interviewers and Clerks | \$45,390 | |
| * | Insurance Claims and Policy Processing Clerks | \$46,090 | |
| * | Payroll and Timekeeping Clerks | \$47,530 | |
| | Insurance Sales Agents | \$59,000 | |
| | Claims Adjusters, Examiners, and Investigators | \$72,180 | |
| Вс | achelor's Degree | | |
| * | Compliance Officers | \$58,740 | |
| * | Buyers and Purchasing Agents | \$62,840 | |
| * | Securities, Commodities, and Financial Services Sales Agents | \$65,460 | |
| * | Financial and Investment Analysts, Financial Risk Specialists, and Financial Specialists, All Other | \$67,216 | |
| * | Accountants and Auditors | \$70,170 | |
| * | Loan Officers | \$77,180 | |
| * | Personal Financial Advisors | \$79,070 | |
| * | Financial Managers | \$130,800 | |
| | ligh Demand, High Wage urce: <u>Kansas Labor Information Center (KLIC) - Career Posters (ks.gov)</u> | | |

HIGH SCHOOL ASSESSMENTS, CREDENTIALS, OR CERTIFICATIONS

- MBA Research (ASK): Concepts of Finance
- CareerSafe: OSHA Safety Certification (10 Hour)
- Intuit: QuickBooks Certified User
- Microsoft (MOS) Excel

This pathway generally prepares individuals to plan, manage, and analyze the

banking institutions, or other organizations. It includes instruction in principles of

accounting, financial instruments, capital planning, funds acquisition, asset and

debt management, budgeting, financial analysis, and investments and portfolio

strategy for (and the implementation of) capital structure, budgeting, acquisition

management. The business finance function in a company is to manage policy and

and investment, financial modeling and planning, funding, dividends, and taxation.

financial and monetary aspects and performance of business enterprises,

- Microsoft (MOS) PowerPoint
- Microsoft (MOS): Access
- Microsoft (MOS) Word
- MBA Research: Finance Program of Study Assessment
- NC3: Data Analytics/Harnessing the Power of Data
- Fundamental Payroll Certification (FPC)

POSTSECONDARY CREDITS

Under the Excel in Career Technical Education Initiative, Kansas high school students qualify for state-funded college tuition in approved technical courses offered by Kansas technical and community colleges.

- Excel in CTE Initiative (SB155) kansasregents.org
- <u>Tiered Technical Courses ksde.org at Kansas</u>
 <u>Community and Technical Colleges</u>

POSTSECONDARY PROGRAMS

- Kansas DegreeStats Kansas Board of Regents ksdegreestats.org
- Degree Stats Lesson (ksde.org)
- K-TIP Report (kansasregents.org)
- Kansas Post-Secondary Exploration Guide (ksde.org)

RESOURCES

- CTE Course Competencies and Indicators (ksde.org)
- Kansas Labor Information Center (KLIC) - Kansas Career Posters (ks.gov)
- <u>Today's Occupations: High Demand,</u>
 <u>High Wage Jobs < Bachelor's (ks.gov)</u>
- <u>Careers in Information Technology at</u>
 <u>My Next Move</u>

STUDENT ORGANIZATION

Future Business Leaders of America



Kansas DECA



• Business Professionals of America





Business Management & Administration

Business Management & Entrepreneurship

Occupation Overview

| Occupations & Degrees Bachelor's Degree | | Median Annual Wage |
|--|--|-----------------------|
| | | |
| * | Project Management & Business Operations Specialists | \$72,639 |
| Ва | chelor's Degree & Less Than 5 Years Work Experience | |
| * | Training & Development Specialists | \$60,210 |
| * | Management Analysts | \$76,390 |
| * | Administrative Services & Facilities Managers | \$94,287 |
| Ва | chelor's Degree & More Than 5 Years Work Experience | |
| * | General Operations Managers | \$81,070 |
| * | Human Resources Managers | \$119,200 |
| * | Chief Executive | \$131,640 |

Business Management & Entrepreneurship

Pathway

INTRODUCTORY LEVEL COURSES

Business Essentials

TECHNICAL LEVEL COURSES

- Business Communications
- Business Management
- Entrepreneurship

Optional Technical Level - Supportive Business & Entrepreneurship

- Business Law
- IB Business and Management
- Accounting
- Business Economics
- Principles of Marketing

Optional Technical Level - Supportive Entrepreneurship

- Web Page Design
- Computer Graphics
- CAM
- Culinary Essentials
- Carpentry
- Remodel and Building Maintenance
- AgriScience
- Ag Welding
- Foundations of Early Childhood
- Engineering Design and Development
- Drafting/CAD
- Digital Marketing
- Production Welding
- General Service I
- Auto Collision

APPLICATION LEVEL COURSES

- Business Management and Entrepreneurship Workplace Experience
- Advanced Business Management and Entrepreneurship Workplace Experience
- Applied Business Development

OCCUPATIONS

- First-Line Supervisors of Office and
 Administrative Support Workers
- Training and Development Specialists
- Human Resources Specialists
- Project Management Specialists and Business Operations Specialists
- Management Analysts

- General and Operations Managers
- Administrative Services and Facilities Managers
- Personal Service Managers, All Other; Entertainment and Recreation Managers, Except Gambling; and Managers, All Other
- Human Resources Managers
- Chief Executives

| Occupations & Degrees | Median Annual Wage |
|---|-----------------------|
| H.S. Diploma | |
| * First-Line Supervisors of Office and Administrative Support Workers | \$58,250 |
| Bachelor's Degree | |
| * Training and Development Specialists | \$60,210 |
| * Human Resources Specialists | \$60,370 |
| * Project Management Specialists and Business Operations Specialists | \$72,639 |
| * Management Analysts | \$76,390 |
| * General and Operations Managers | \$81,070 |
| * Administrative Services and Facilities Managers | \$94,287 |
| Personal Service Managers, All Other; Entertainme * and Recreation Managers, Except Gambling; and Managers, All Other | ent \$102,811 |
| * Human Resources Managers | \$119,200 |
| * Chief Executives | \$131,460 |

HIGH SCHOOL ASSESSMENTS, CREDENTIALS, OR CERTIFICATIONS

Adobe: Illustrator

material resources.

CareerSafe: OSHA Safety Certification (10 Hour)

This pathway generally focuses on enterprise management

organizing, directing and evaluating business functions

essential to efficient and productive business operations.

direct, and evaluate all or part of a business organization

through the allocation and use of financial, human, and

and entrepreneurship. Instruction includes areas of planning,

General Management focuses on careers that plan, organize,

- Intuit: QuickBooks Certified User
- Microsoft (MOS) Excel
- Microsoft (MOS) PowerPoint
- Microsoft (MOS): Access
- Microsoft (MOS) Word
- MBA Research (ASK): Concepts of Entrepreneurship/Management

NC3: Data Analytics/Harnessing the Power of Data

POSTSECONDARY CREDITS

Under the Excel in Career Technical Education Initiative, Kansas high school students qualify for state-funded college tuition in approved technical courses offered by Kansas technical and community colleges.

- Excel in CTE Initiative (SB155) kansasregents.org
- <u>Tiered Technical Courses ksde.org at Kansas</u>
 <u>Community and Technical Colleges</u>

POSTSECONDARY PROGRAMS

- <u>Kansas DegreeStats Kansas Board of</u>
 <u>Regents ksdegreestats.org</u>
- Degree Stats Lesson (ksde.org)
- K-TIP Report (kansasregents.org)
- Kansas Post-Secondary Exploration Guide (ksde.org)

RESOURCES

- CTE Course Competencies and Indicators (ksde.org)
- Kansas Labor Information Center (KLIC) - Kansas Career Posters (ks.gov)
- Today's Occupations: High Demand, High Wage Jobs < Bachelor's (ks.gov)
- <u>Careers in Information Technology at</u>
 <u>My Next Move</u>

STUDENT ORGANIZATION

<u>Future Business Leaders of America</u>



Kansas DECA



• Business Professionals of America







900 S.W. Jackson Street, Suite 600 Topeka, Kansas 66612-1212 (785) 296-3203 www.ksde.org/board

SUCCESS DEFINED

A successful Kansas high school graduate has the

- Academic preparation.
- Cognitive preparation.
- Technical skills.
- Employability skills and
- Civic engagement

to be successful in postsecondary education. in the attainment of an industry recognized certification or in the workforce, without the need for remediation.

OUTCOMES

- Social-emotional growth
- Kindergarten readiness
- Individual Plan of Study
- Civic engagement
- · Academically prepared for postsecondary
- High school graduation
- Postsecondary success

Kansas State Board of Education

BOARD MEMBERS

DISTRICT 1



Danny Zeck Vice Chair Danny.Zeck@ksde.gov



Melanie Haas Melanie Hoos@ksde. ROV

DISTRICT 7



Michelle Dombrosky Michelle.Dombrosky@ ksde.gov

DISTRICT 8





DISTRICT 4

Connie O'Brien Connie,O'brien@ksde. gov

DISTRICT 9



Cathy Hopkins Chair Cathy Hopkins@ksde.





MISSION

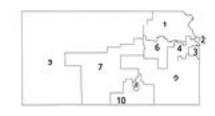
To prepare Kansas students for lifelong success through rigorous, quality academic instruction, career training and character development according to each student's gifts and talents.

VISION

Kansas leads the world in the success of each student.

MOTTO

Kansans Can



DISTRICT 6



Dr. Beryl A. New Beryl.New@ksde.gov



Dennis Hershberger Dennis.Hershberger@ ksde.gov



Betty Arnold Betty. Arnold@ksde.gov



Im Porter Jim.Porter@ksde.gov



Debby Potter Debby.Potter@ksde.gov

EDUCATION



COMMISSIONER OF

Dr. Randy Watson Randy.Watson@ksde.gov

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The Kinds that Department of Education does not discinnate on the basis of non-color, origins, natural origin, see, disability or ago in to program and a twiter and provides equal accept to the flay Seats and other designated youth groups. The following person has been designated to basels imposes regarding the conductive institute policies. XXX General Countril, Office of General Countril, XXXI. Tundes State Office Scilling, 900 S.W. Judeox, Scile 103, Topella, NS 68612, (795) 396-5201

Kansas leads the world in the success of each student.

Jan. 25, 2025

