Kansas Career Cluster Guidance Handbook 2025-2026

KANSAS CAREER AND TECHNICAL EDUCATION

KANSAS CAREER CLUSTER PATHWAY DESIGN MODELS



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Kansas Career and Technical Education



Organized educational activities that offer a sequence of courses that provide individuals with 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, high-wage or in-demand industry sectors or occupations. The academic skills shall be, at the secondary level, aligned with the challenging state academic standards adopted by the Elementary and Secondary Education Act (ESEA). It provides technical skill proficiency leading to an industry-recognized credential, a certificate, or an associate degree and may include prerequisite courses (other than a remedial course) that meet the other requirements; and include competency-based, work-based or other applied learning that supports the development of academic knowledge, higher-order reasoning and problemsolving skills, work attitudes, employability skills, technical skills, and occupation-specific skills, and knowledge of all aspects of an industry, including entrepreneurship, of an individual.1

CTE Course Competencies and Indicators²

^{1 [}Section 3 (5) Carl D. Perkins Career and Technical Education Act of 2006 [Public Law 88–210; Dec. 18, 1963] [As Amended Through Strengthening Career and Technical Education for the 21st Century Act, P.L. 116–6, Enacted Feb. 15, 2019]

² Kansas State Department of Education [KSDE]. CTE Course Competencies and Indicators. https://www.ksde.org/Agency/Division-of-Learning-Services/Career-Standards-and-Assessment-Services/CSAS-Home/Career-Technical-Education-CTE/CTE-Course-Competencies-and-Indicators

Kansas CTE Career Pathways Infographics

The following three pages contain the Kansas College and Technical Education (CTE) Career pathways infographics.

Elementary Version

• Seven Industries.



Middle School Version

- Seven Industries.
- Fifteen Career Clusters.

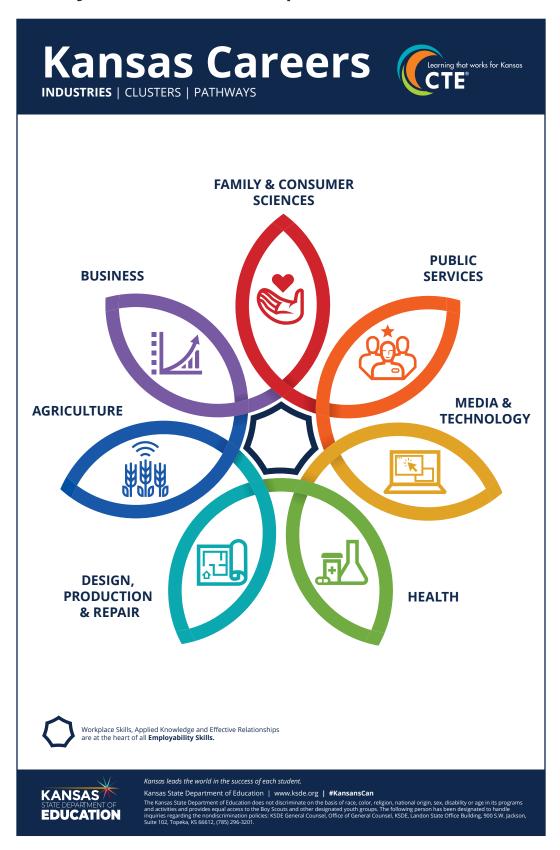


Secondary Version

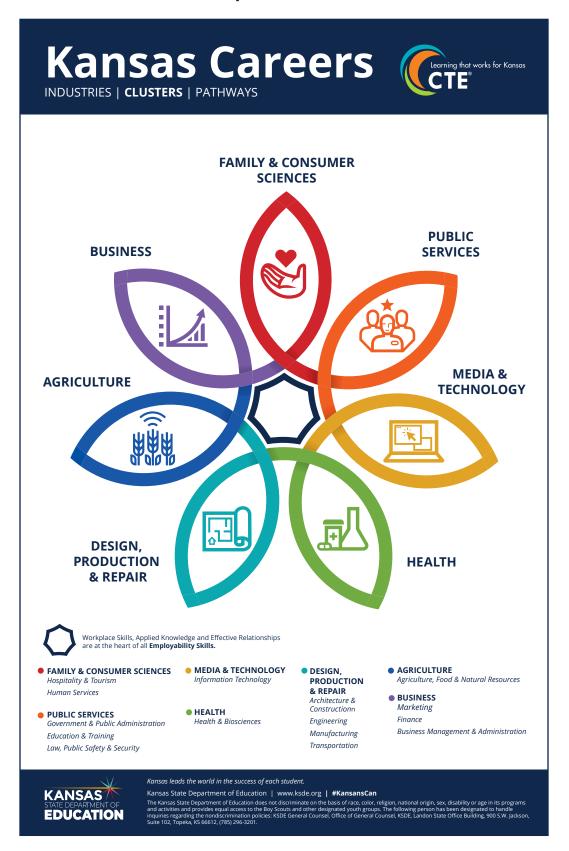
- Seven Industries.
- Fifteen Career Clusters.
- Thirty-two Pathways.



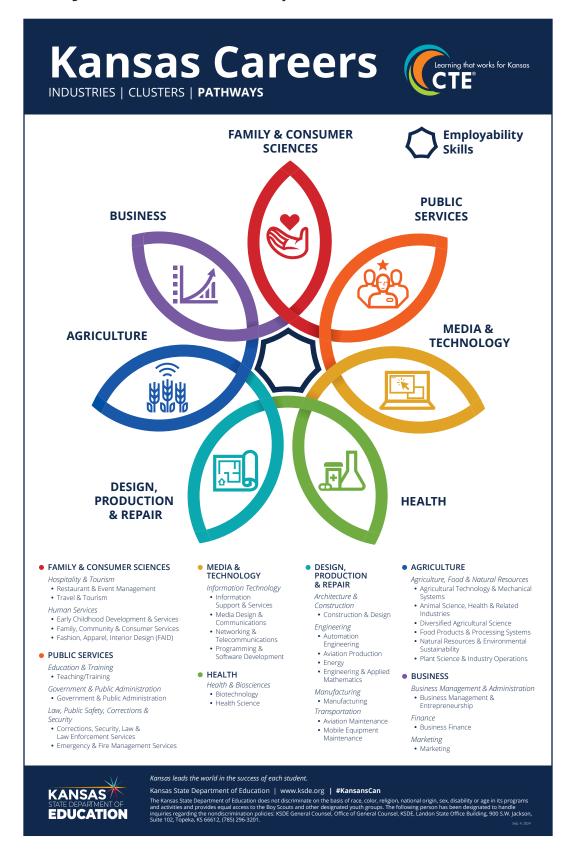
Elementary School Level Graphic



Middle School Level Graphic



Secondary School Level Graphic



Kansas Secondary CTE Contacts

CAREER AND TECHNICAL EDUCATION

CTE Assistant Director

Natalie Clark (785) 296-4351 ndclark@ksde.org

Senior Administrative Assistant

Barbara Bahm (785) 291-3538 bbahm@ksde.org

CLUSTER/PATHWAYS

Agriculture, Food and Natural Resources

Vacant (785) 296-3956

Architecture and Construction

Kevin Bronson (785) 296-6214 kbronson@ksde.org

Business Management and Administration

Kathy Camarena (785) 296-3152 kcamarena@ksde.org

Education and Training

Taylor Spangler (785) 296-2307 tspangler@ksde.org

Engineering

Kevin Bronson (785) 296-6214 kbronson@ksde.org

Finance

Kathy Camarena (785) 296-3152 kcamarena@ksde.org

Government and Public Administration

Kathy Camarena (785) 296-3152 kcamarena@ksde.org

Health and Bio Sciences

Vacant (785) 296-2221

Hospitality and Tourism

Taylor Spangler (785) 296-2307 tspangler@ksde.org

Human Services

Taylor Spangler (785) 296-2307 tspangler@ksde.org

Information Technology

Stephen King (785) 296-7285 sking@ksde.org

Law, Public Safety, Corrections and Security

Kevin Bronson (785) 296-6214 kbronson@ksde.org

Manufacturing

Kevin Bronson (785) 296-6214 kbronson@ksde.org

Marketing

Kathy Camarena (785) 296-3152 kcamarena@ksde.org

Transportation

Kevin Bronson (785) 296-6214 kbronson@ksde.org

CAREER AND TECHNICAL STUDENT **ORGANIZATIONS (CTSO)**

Business Professionals of America (BPA)

Marcy Cross

(316) 794-4190

mcross@goddardusd.com

DECA

Logan Gauby

(785) 532-6180

Imgauby@ksu.edu

Future Business Leaders of America (FBLA)

Connie Lindell

(785) 760-1038

conniefbla@gmail.com

Family, Career and Community Leaders of America (FCCLA)

Shandi Andres

(785) 532-5511

sdandres@ksu.edu

FFA

Vacant

(785) 296-3956

FFA Executive Secretary

Mary Kane

(785) 532-6424

mrkane@k-state.edu

Future Health Professionals (HOSA)

Tina Goosz

(620) 235-4040

tgoosz@kumc.edu

SkillsUSA

Becky Warren

(620) 820-9367

warrenb@hutchcc.edu

Technology Student Association (TSA)

Ruth DeLange

(620) 366-3388

tsakansas@gmail.com

CARL D. PERKINS

Lead

Helen Swanson

(785) 296-4912

hswanson@ksde.org

Office of Civil Rights Visits

Andy Ewing

(785) 296-3860

aewing@ksde.org

Public Service Administrator

Beverly Victoriano

(785) 296-6770

bvictoriano@ksde.org

RELATED AREAS

K-12 Career Development

Kent Reed

(785) 296-8109

kreed@ksde.org

Kansas Course Code Management System (KCCMS)

kccms@ksde.org

Kansas Individual Data on Students (KIDS)

kids@ksde.org

Pathways Authenticated Application Assistance

pathwayshelpdesk@ksde.org

KIDS Student Course Data Submission (KCAN)

kids@ksde.org

Educator Data Collection System (EDCS)

Shane Carter

(785) 296-2289

scarter@ksde.org

Kansas Career Cluster Pathways

Pathway Classification of Instructional Program (CIP) Codes

Nontraditional female pathway.

Nontraditional male pathway.



Agriculture, Food and Natural Resources Career Cluster Design

🕴 Agricultural Te	echnology and Mechanical Systems Pathway	01.0201
🕴 Animal Scienc	ce, Health and Related Industries Pathway	01.0901
Diversified Ag	ricultural Science Pathway	01.0000
Food Product	s and Processing Systems Pathway	01.0401
Natural Resou	urces and Environmental Sustainability Pathway _	03.0101
Plant Science	and Industry Operations Pathway	01.1101



Business Management and Administration Career Cluster Design

Business Management and Entrepreneurship Pathway	52.0799
Finance Career Cluster Design	
Business Finance Pathway	_ 52.0801
Marketing Career Cluster Design	
Marketing Pathway	52.1402



DESIGN, PRODUCTION AND REPAIR

Architecture and Construction Career Cluster Design

Construction and Design Pathway	46.0000
Engineering Career Cluster Design	
Automation Engineering Pathway	15.0406
Aviation Production Pathway	15.0000
Fnergy Pathway	14.4801
Fingineering and Applied Mathematics Pathway	14.0101
Manufacturing Career Cluster Design	48.0000
Manufacturing Pathway	46.0000
Transportation Career Cluster Design	

Transportation Career Cluster Design

Aviation Maintenance Pathway	47.0608
Mohile Equipment Maintenance Pathway	479999

Nontraditional female pathway.

Nontraditional male pathway.



FAMILY AND CONSUMER SCIENCES

Hospitality and	Tourism	Career Cluster D	esign
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Ì	Restaurant and Event Management Pathway	12.0504
i	Travel and Tourism Pathway	52 0901

Human Services Career Cluster Design



HEALTH

Health and Biosciences Career Cluster Design

Biotechnology Pathway	26.1201
Health Science Pathway	51.3901



MEDIA AND TECHNOLOGY

Information Technology Career Cluster Design

ŧ	Information Support and Services Pathway	_11.0301
	Media Design and Communications Pathway	_11.0801
ŧ	Networking and Telecommunications Pathway	_11.0901
ŧ	Programming and Software Development Pathway	_11.0201



PUBLIC SERVICES

Education and Training Career Cluster Design

† Teaching/Training Pathway ______13.0101

Government and Public Administration Career Cluster Design

Government and Public Administration Pathway ______ 44.0401

Law, Public Safety, Corrections and Security Career Cluster Design

- Corrections, Security, Law and Law Enforcement Services Pathway _____43.0199
- Emergency and Fire Management Services Pathway _____43.0299

AGRICULTURE



AGRICULTURE, FOOD AND NATURAL RESOURCES CAREER CLUSTER DESIGN

Agricultural Technology and Mechanical Systems Pathway CIP CODE 01.0201

INTRODUCTORY LEVEL

Title	Code	Credit
☐ Introduction to Agriculture	18001	1
■ Agriculture Explorations I	68001	0.5
■ Agriculture Explorations II	68002	0.5

TECHNICAL LEVEL

Title	Code	Credit
Agriscience	18002	1
■ Agricultural Mechanics	18401	1
■▶ Agricultural Welding I or Welding Processes I	18404 or 39207	1
■▶ Small Power Systems	18410	1

APPLICATION LEVEL

Title	Code	Credit
Agricultural Internship	18048	1
Advanced Agricultural Internship	18049	1
Agribusiness Management	18201	1
Agricultural Entrepreneurship	18202	1
Agricultural Leadership and Communications	18203	1
Research in Agriculture	18206	1
■ • Advanced Agricultural Mechanics	18402	1
■ Agricultural Construction	18403	1
■ Agricultural Welding II or Welding Processes II	18407 or 39208	1
■ Agricultural Fabrication	18409	1
■ Advanced Agricultural Power	18411	1
▶ Agricultural Engineering and Technology	18415	1

- Has a specific prerequisite course see competency profile for details.
- ONE of the courses marked in this section is required.
- ▶ This course has a required prerequisite of either 18001 or 18002.

- 1. Includes a minimum of three secondary-level credits.
- 2. Includes a work-based element.
- 3. Consist of a sequence:
 - · Introductory-level course.
 - · Technical-level course.
 - · Application-level course.
- 4. Supporting documentation includes:
 - Articulation Agreement(s).
 - · Certification.
 - Program Improvement Plan.
 - Program of Study.
- 5. Technical-level and Application-level courses receive .5 state weighted funding in an approved CTE pathway.



Animal Science, Health and Related Industries Pathway CIP CODE 01.0901

INTRODUCTORY LEVEL

Title	Code	Credit
☐ Introduction to Agriculture	18001	1
Agriculture Explorations I	68001	0.5
■ • Agriculture Explorations II	68002	0.5

TECHNICAL LEVEL

Title	Code	Credit
Agriscience	18002	1
★ Animal Science	18101	1
Plant and Animal Science	18301	1
Agricultural Food Science	18305	1
Agricultural Biotechnology	18308	1

APPLICATION LEVEL

Title	Code	Credit
Agricultural Internship	18048	1
■ Small Animal Care	18102	1
■ • Advanced Animal Science	18103	1
■ Equine Science	18104	1
■ Animal Health	18105	1
Agribusiness Management	18201	1
Agricultural Entrepreneurship	18202	1
Agricultural Leadership and Communications	18203	1
Research in Agriculture	18206	1
Advanced Plant and Animal Science	18302	1

- Required course for pathway approval.
- Has a specific prerequisite course see competency profile for details.
- ONE of the courses marked in this section is required.

- 1. Includes a minimum of three secondary-level credits.
- 2. Includes a work-based element.
- 3. Consist of a sequence:
 - · Introductory-level course.
 - Technical-level course.
 - Application-level course.
- 4. Supporting documentation includes:
 - Articulation Agreement(s).Certification.

 - · Program Improvement Plan.
 - Program of Study.
- 5. Technical-level and Application-level courses receive .5 state weighted funding in an approved CTE pathway.

Diversified Agricultural Science Pathway



INTRODUCTORY LEVEL

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Title	Code	Credit
☐ Introduction to Agriculture	18001	1
■ Agriculture Explorations I	68001	0.5
■ • Agriculture Explorations II	68002	0.5

TECHNICAL LEVEL

Title	Code	Credit
Agriscience	18002	1
Horticulture	18052	1
Plant and Soil Science	18058	1
Animal Science	18101	1
Plant and Animal Science	18301	1
Agricultural Food Science	18305	1
Agricultural Biotechnology	18308	1
▶ Agricultural Mechanics	18401	1
▶ Agricultural Welding I or Welding Processes I	18404 or 39207	1
▶ Small Power Systems	18410	1
Natural Resource Management	18504	1

- Has a specific prerequisite course see competency profile for details.
- ONE of the courses marked in this section is required.
- ▶ This course has a required prerequisite of either 18001 or 18002.

- 1. Includes a minimum of three secondary-level credits.
- 2. Includes a work-based element.
- 3. Consist of a sequence:
 - · Introductory-level course.

 - Technical-level course.Application-level course.
- 4. Supporting documentation includes:
 - Articulation Agreement(s).
 - Certification.
 - Program Improvement Plan.
 - Program of Study.
- 5. Technical-level and Application-level courses receive .5 state weighted funding in an approved CTE pathway.



AGRICULTURE | AGRICULTURE, FOOD AND NATURAL RESOURCES CAREER CLUSTER DESIGN Diversified Agricultural Science Pathway 01.0000

APPLICATION LEVEL

Title	Code	Credit
Capstone in Agriculture	18003	1
Agricultural Internship	18048	1
Small Animal Care	18102	1
Equine Science	18104	1
Agribusiness Management	18201	1
Agricultural Entrepreneurship	18202	1
Agricultural Leadership and Communications	18203	1
Research in Agriculture	18206	1
Advanced Plant and Animal Science	18302	1
Sustainable/Alternative Agriculture	18310	1
▶ Agricultural Construction	18403	1
▶ Agricultural Fabrication	18409	1
Agricultural Engineering and Technology	18415	1

- Has a specific prerequisite course see competency profile for details.
- **ONE** of the courses marked in this section is required.
- This course has a required prerequisite of either 18001 or 18002.

- 1. Includes a minimum of three secondary-level credits.
- 2. Includes a work-based element.
- 3. Consist of a sequence:
 - · Introductory-level course.
 - Technical-level course.
 - Application-level course.
- 4. Supporting documentation includes:
 - Articulation Agreement(s).Certification.

 - Program Improvement Plan.
 - Program of Study.
- 5. Technical-level and Application-level courses receive .5 state weighted funding in an approved CTE pathway.

Food Products and Processing Systems Pathway



IN

INTRODUCTORY LEVEL		
Title	Code	Credit
☐ Introduction to Agriculture	18001	1
■ Agriculture Explorations I	68001	0.5
■ • Agriculture Explorations II	68002	0.5

TECHNICAL LEVEL

Title	Code	Credit
Agriscience	18002	1
Horticulture	18052	1
Plant and Soil Science	18058	1
Animal Science	18101	1
☐ Agricultural Food Science	18305	1
■ Food Science	19254	1

APPLICATION LEVEL

Title	Code	Credit
Agricultural Internship	18048	1
Advanced Agricultural Internship	18049	1
Agribusiness Management	18201	1
Agricultural Entrepreneurship	18202	1
Agricultural Leadership and Communications	18203	1
Research in Agriculture	18206	1
Advanced Food Science	18317	1

- Has a specific prerequisite course see competency profile for details.
- **ONE** of the courses marked in this section is required.

- 1. Includes a minimum of three secondary-level credits.
- 2. Includes a work-based element.
- 3. Consist of a sequence:
 - · Introductory-level course.
 - · Technical-level course.
 - · Application-level course.
- 4. Supporting documentation includes:
 - Articulation Agreement(s).
 - Certification.
 - Program Improvement Plan.
 - Program of Study.
- 5. Technical-level and Application-level courses receive .5 state weighted funding in an approved CTE pathway.





Natural Resources and Environmental Sustainability Pathway CIP CODE 03.0101

INTRODUCTORY LEVEL

Title	Code	Credit
☐ Introduction to Agriculture	18001	1
■ Agriculture Explorations I	68001	0.5
■ • Agriculture Explorations II	68002	0.5

TECHNICAL LEVEL

Title	Code	Credit
Agriscience	18002	1
■ Wildlife and Recreation Management	18501	1
■ Natural Resource Management	18504	1

APPLICATION LEVEL

Title	Code	Credit
Agricultural Internship	18048	1
Advanced Agricultural Internship	18049	1
Agribusiness Management	18201	1
Agricultural Entrepreneurship	18202	1
Agricultural Leadership and Communications	18203	1
Research in Agriculture	18206	1
■ Sustainable/Alternative Agriculture	18310	1
■ Environmental Resources and Ecology	37506	1

• Has a specific prerequisite course – see competency profile for details.

ONE of the courses marked in this section is required.

- 1. Includes a minimum of three secondary-level credits.
- 2. Includes a work-based element.
- 3. Consist of a sequence:
 - · Introductory-level course.
 - · Technical-level course.
 - Application-level course.
- 4. Supporting documentation includes:
 - Articulation Agreement(s).
 - · Certification.
 - Program Improvement Plan.
 - · Program of Study.
- 5. Technical-level and Application-level courses receive .5 state weighted funding in an approved CTE pathway.

Plant Science and Industry Operations Pathway





INTRODUCTORY LEVEL		
Title	Code	Credit
☐ Introduction to Agriculture	18001	1
■ Agriculture Explorations I	68001	0.5
■ • Agriculture Explorations II	68002	0.5

TECHNICAL LEVEL

Title	Code	Credit
Agriscience	18002	1
■ Horticulture	18052	1
☐ Plant and Soil Science	18058	1
☐ Plant and Animal Science	18301	1

APPLICATION LEVEL

Title	Code	Credit
Agricultural Internship	18048	1
Advanced Agricultural Internship	18049	1
☐ Horticulture, Floriculture and Greenhouse Management	18057	1
■ Nursery and Landscape Operations	18067	1
☐ Crop and Range Management	18081	1
Agribusiness Management	18201	1
Agricultural Entrepreneurship	18202	1
Agricultural Leadership and Communications	18203	1
Research in Agriculture	18206	1
■ Advanced Plant and Animal Science	18302	1

- Has a specific prerequisite course see competency profile for details.
- **ONE** of the courses marked in this section is required.

- 1. Includes a minimum of three secondary-level credits.
- 2. Includes a work-based element.
- 3. Consist of a sequence:
 - · Introductory-level course.

 - Technical-level course.Application-level course.
- 4. Supporting documentation includes:
 - · Articulation Agreement(s).
 - Certification.
 - Program Improvement Plan.
 - Program of Study.
- 5. Technical-level and Application-level courses receive .5 state weighted funding in an approved CTE pathway.





BUSINESS MANAGEMENT AND ADMINISTRATION CAREER CLUSTER DESIGN

Business Management and Entrepreneurship Pathway

CIP CODE 52.0799

INTRODUCTORY LEVEL

Title	Code	Credit
★ ■ Business Essentials	12050	0.5

TECHNICAL LEVEL

Title	Code	Credit
★ Business Communications	12009	0.5
★ Business Management	12052	0.5
★ Entrepreneurship	12053	0.5

OPTIONAL TECHNICAL LEVEL

Supportive Business and Entrepreneurship

· · · · · · · · · · · · · · · · · · ·		
Title	Code	Credit
Business Law	12054	0.5
IB Business and Management	12059	1
Accounting	12104	1
Business Economics	12105	0.5
Principles of Marketing	12164	1

Required course for pathway approval.

Business Essentials (12050) may be integrated with Computer Applications (10004).

school may include both in pathway – students only take ONE for completer status.

- 1. Includes a minimum of three secondary-level credits.
- 2. Includes a work-based element.
- 3. Consist of a sequence:
 - · Introductory-level course.
 - · Technical-level course.
 - · Application-level course.
- 4. Supporting documentation includes:
 - · Articulation Agreement(s).
 - Certification.
 - Program Improvement Plan.
 - · Program of Study.
- 5. Technical-level and Application-level courses receive .5 state weighted funding in an approved CTE pathway.

BUSINESS | BUSINESS MANAGEMENT AND ADMINISTRATION CAREER CLUSTER DESIGN Business Management and Entrepreneurship Pathway 52.0799



Supportive Entrepreneurship

Students May take up to ONE CREDIT of Supportive Entrepreneurship Technical Courses to become a completer and/or concentrator.

Title	Code	Credit
Web Design	10201	1
2D Animation	10202	1
Computer-Aided Machining (CAM) I	13204	1
Culinary Essentials	16052	0.5
General Carpentry I	17002	1
Remodel and Building Maintenance	17009	0.5
Agriscience	18002	1
Agricultural Welding I and/or Welding Processes I	18404 and/or 39207	1
Foundations of Early Childhood Development	19052	1
Engineering Design and Development	21007	1
Drafting/CAD	21107	1
Digital Marketing	35162	0.5
General Service I	40150	1
Auto Collision	40300	1

APPLICATION LEVEL

Title	Code	Credit
★ 📤 Business Management and Entrepreneurship Workplace Experience	12098	0.5/1
★ Applied Business Development	32200	1
Advanced Business Management and Entrepreneurship Workplace Experience	32998	1

Required course for pathway approval.

Business Essentials (12050) may be integrated with Computer Applications (10004).

school may include both in pathway – students only take ONE for completer status.

- 1. Includes a minimum of three secondary-level credits.
- 2. Includes a work-based element.
- 3. Consist of a sequence:
 - · Introductory-level course.

 - Technical-level course.Application-level course.
- 4. Supporting documentation includes:
 - Articulation Agreement(s).
 - Certification.
 - Program Improvement Plan.
 - Program of Study.
- 5. Technical-level and Application-level courses receive .5 state weighted funding in an approved CTE pathway.



BUSINESS

FINANCE CAREER CLUSTER DESIGN

Business Finance Pathway

CIP CODE 52.0801

INTRODUCTORY LEVEL

Title	Code	Credit
★ ■ Business Essentials	12050	0.5

TECHNICAL LEVEL

Title	Code	Credit
★ Accounting	12104	1

Optional Supportive Courses

Title	Code	Credit
Business Communications	12009	0.5
Entrepreneurship	12053	0.5
Business Law	12054	0.5
Business Economics	12105	0.5
# Applied Business Technology Applications	33110	1

Required course for pathway approval.

ONE credit from at least one strand is required.

School may include both in pathway – students only take ONE for completer status.

Students are required to complete a foundational computer skills course such as Computer Applications (60004/10004) or an equivalent before enrolling in this course.

Business Essentials (12050) may be integrated with Computer Applications (10004).

- 1. Includes a minimum of three secondary-level credits.
- 2. Includes a work-based element.
- 3. Consist of a sequence:
 - Introductory-level course.
 - · Technical-level course.
 - · Application-level course.
- 4. Supporting documentation includes:
 - · Articulation Agreement(s).
 - Certification.
 - Program Improvement Plan.
 - Program of Study.
- 5. Technical-level and Application-level courses receive .5 state weighted funding in an approved CTE pathway.

BUSINESS | FINANCE CAREER CLUSTER DESIGN

Business Finance Pathway 52.0801



APPLICATION LEVEL

■ Financial Institutions and Services Strand

Title	Code	Credit
Banking and Finance	12101	0.5
Risk Management and Insurance	12106	0.5
Investing	12107	0.5

■ Accounting Strand

Title	Code	Credit
Advanced Accounting	33108	1
College Accounting	33109	1

Optional Supportive Courses

Title	Code	Credit
workplace Experience in Finance	12148	0.5/1
Workplace Experience in Finance - Advanced	33200	1

Required course for pathway approval.

ONE credit from at least one strand is required.

School may include both in pathway – students only take ONE for completer status.

!! Students are required to complete a foundational computer skills course such as Computer Applications (60004/10004) or an equivalent before enrolling in this course.

Business Essentials (12050) may be integrated with Computer Applications (10004).

- 1. Includes a minimum of three secondary-level credits.
- 2. Includes a work-based element.
- 3. Consist of a sequence:
 - · Introductory-level course.
 - · Technical-level course.
 - Application-level course.
- 4. Supporting documentation includes:
 - Articulation Agreement(s).
 - · Certification.
 - Program Improvement Plan.
 - · Program of Study.
- 5. Technical-level and Application-level courses receive .5 state weighted funding in an approved CTE pathway.



MARKETING CAREER CLUSTER DESIGN

Marketing Pathway

CIP CODE 52.1402

BUSINESS

INTRODUCTORY LEVEL

Title	Code	Credit
★ ■ Business Essentials	12050	0.5

TECHNICAL LEVEL

Title	Code	Credit
Business Communications	12009	0.5
★ Principles of Marketing	12164	1

Optional Supportive Courses

Title	Code	Credit
Web Design	10201	1
2D Animation	10202	1
Business Management	12052	0.5
Entrepreneurship	12053	0.5
IB Business and Management	12059	1
Accounting	12104	1
Business Economics	12105	0.5
Sports/Entertainment Marketing	12163	0.5
Principles of Advertising	12165	0.5
Graphic Design I	30102	0.5
# Applied Business Technology Applications	33110	1
Digital Marketing	35162	0.5

Required course for pathway approval.

Course is not required for pathway approval, but strongly recommended by external review committee and KACCTE.

School may include both in pathway – students only take ONE for completer status.

!! Students are required to complete a foundational computer skills course such as Computer Applications (60004/10004) or an equivalent before enrolling in this course.

Business Essentials (12050) may be integrated with Computer Applications (10004).

- 1. Includes a minimum of three secondary-level credits.
- 2. Includes a work-based element.
- 3. Consist of a sequence:
 - Introductory-level course.
 - · Technical-level course.
 - · Application-level course.
- 4. Supporting documentation includes:
 - · Articulation Agreement(s).
 - Certification.
 - Program Improvement Plan.
 - · Program of Study.
- 5. Technical-level and Application-level courses receive .5 state weighted funding in an approved CTE pathway.



Marketing Pathway 52.1402

APPLICATION LEVEL

Title	Code	Credit
★ Marketing Applications	35300	1

Optional Supportive Courses

Title	Code	Credit
Marketing Management	12166	1
Integrated Marketing Applications	12195	0.5
Marketing Research	12196	1
Marketing – Workplace Experience	12198	0.5/1
Advanced Marketing Workplace Experience	12199	1
Marketing Communications	35168	0.5

- Required course for pathway approval.
- Course is not required for pathway approval, but strongly recommended by external review committee and KACCTE.
- School may include both in pathway students only take ONE for completer status.
- **!!** Students are required to complete a foundational computer skills course such as Computer Applications (60004/10004) or an equivalent before enrolling in this course.
- Business Essentials (12050) may be integrated with Computer Applications (10004).

- 1. Includes a minimum of three secondary-level credits.
- 2. Includes a work-based element.
- 3. Consist of a sequence:
 - · Introductory-level course.
 - · Technical-level course.
 - Application-level course.
- 4. Supporting documentation includes:
 - · Articulation Agreement(s).
 - · Certification.
 - Program Improvement Plan.
 - Program of Study.
- 5. Technical-level and Application-level courses receive .5 state weighted funding in an approved CTE pathway.



ARCHITECTURE AND CONSTRUCTION CAREER CLUSTER DESIGN

Construction and Design Pathway

CIP CODE 46.0000

INTRODUCTORY LEVEL

Title	Code	Credit
Drafting/Print Reading	21102	0.5
Production Print Reading I	21108	0.5
Introduction to Skilled Trades	38001	0.5

TECHNICAL LEVEL

Design Strand

Title	Code	Credit
Interior Design I	19263	0.5
Drafting/Architecture I	21103	1
Drafting/CAD	21107	1
Architectural Design I	21203	0.5
■ Interior Design II	22212	0.5

Construction Strand

Title	Code	Credit
General Carpentry I	17002	1
Woodworking Principles	17007	1
Mechanical/Electrical/Plumbing (MEP) I	17062	0.5

- Required course for construction strand.
- Has a specific prerequisite course see competency profile for details.
- Requires FCS Licensure.

- 1. Includes a minimum of three secondary-level credits.
- 2. Includes a work-based element.
- 3. Consist of a sequence:
 - · Introductory-level course.
 - · Technical-level course.
 - · Application-level course.
- 4. Supporting documentation includes:
 - · Articulation Agreement(s).
 - · Certification.
 - Program Improvement Plan.
 - · Program of Study.
- 5. Technical-level and Application-level courses receive .5 state weighted funding in an approved CTE pathway.

DESIGN, PRODUCTION AND REPAIR | ARCHITECTURE AND CONSTRUCTION Construction and Design Pathway 46.0000



APPLICATION LEVEL

Title	Code	Credit
Workplace Experience in Architecture and Construction	38100	0.5
Workplace Experience in Architecture and Construction - Comprehensive	38110	1

Design Strand

Title	Code	Credit
Research and Design for Preconstruction	21109	1
Drafting/Architecture II	38050	0.5
Interior Architectural Design	38212	0.5
Architectural Design II	38223	0.5

Construction Strand

Title	Code	Credit
Sheet Metal Technology	13205	1
Research and Design in Building Trades	17005	1
Remodel and Building Maintenance	17009	0.5
HVAC Technology	17056	0.5
Plumbing Technology	17058	0.5
Electrical Technology	17113	0.5
General Carpentry II	38002	1
Advanced Materials and Fabrication	38010	1

- Required course for construction strand.
- Has a specific prerequisite course see competency profile for details.
- Requires FCS Licensure.

- 1. Includes a minimum of three secondary-level credits.
- 2. Includes a work-based element.
- 3. Consist of a sequence:
 - · Introductory-level course.

 - Technical-level course.Application-level course.
- 4. Supporting documentation includes:
 - · Articulation Agreement(s).
 - Certification.
 - Program Improvement Plan.
 - Program of Study.
- 5. Technical-level and Application-level courses receive .5 state weighted funding in an approved CTE pathway.



DESIGN, PRODUCTION AND REPAIR

ENGINEERING CAREER CLUSTER DESIGN

Automation Engineering Pathway

CIP CODE 15.0406

INTRODUCTORY LEVEL

Title	Code	Credit
Introduction to Manufacturing	13001	0.5
Production Print Reading I	21108	0.5
Introduction to Computer Coding	31001	0.5
Introduction to Physical Computing	31002	0.5
Introduction to Skilled Trades	38001	0.5
Introduction to Engineering	41310	1

TECHNICAL LEVEL

Title	Code	Credit
Computer Programming	10152	1
Mechanical Power Transmission Systems	13302	0.5
Fundamentals of Electrical Theory	17101	1
Engineering Design	21006	1
Robotics I	21009	1
Foundations of Electronics	21201	1
Welding Processes I	39207	1
Hand and Power Tools	40400	0.5

APPLICATION LEVEL

Title	Code	Credit
Cybersecurity I	10020	1
Industrial Maintenance Systems	13303	0.5
Digital Electronics	21008	1
Computer Integrated Manufacturing	21010	1
Workplace Experience in Engineering – Comprehensive	21048	1
● Robotics II	38009	0.5
Automated Integrated Systems I	39010	0.5
Automated Integrated Systems II	39020	0.5
Hydraulics and Pneumatics	39302	0.5
Workplace Experience in Engineering	41048	0.5
Materials Science in Engineering	41355	0.5

Has a specific prerequisite course – see competency profile for details.

- 1. Includes a minimum of three secondary-level credits.
- 2. Includes a work-based element.
- 3. Consist of a sequence:
 - · Introductory-level course.
 - Technical-level course.
 - · Application-level course.
- 4. Supporting documentation includes:
 - Articulation Agreement(s).Certification.

 - · Program Improvement Plan.
 - Program of Study.
- 5. Technical-level and Application-level courses receive .5 state weighted funding in an approved CTE pathway.

DESIGN, PRODUCTION AND REPAIR | ENGINEERING CAREER CLUSTER DESIGN

Aviation Production Pathway



INTRODUCTORY LEVEL

Title	Code	Credit
Production Print Reading I	21108	0.5
Introduction to Skilled Trades	38001	0.5

TECHNICAL LEVEL

Title	Code	Credit
★ Hand and Power Tools	40400	0.5
★ Aviation Fundamentals	40410	0.5
Aviation Systems	40420	1

Design Strand

Title	Code	Credit
Drafting/CAD	21107	1

Production Strand

Title	Code	Credit
Production Methods I	13052	1

APPLICATION LEVEL

Title	Code	Credit
Workplace Experience in Engineering –Comprehensive	21048	1
Workplace Experience in Engineering	41048	0.5

Design Strand

Title	Code	Credit
Aerospace Drawings I	41500	0.5
Aerospace Drawings II	41510	0.5
Special Projects and Research in Aviation	41520	1

Production Strand

Title	Code	Credit
Aviation Tooling	40600	1
Aerostructures	40620	1
Composites	40640	1

Required course for pathway approval.

• Has a specific prerequisite course – see competency profile for details.

- 1. Includes a minimum of three secondary-level credits.
- 2. Includes a work-based element.
- 3. Consist of a sequence:
 - · Introductory-level course.

 - Technical-level course.Application-level course.
- 4. Supporting documentation includes:
 - · Articulation Agreement(s).
 - Certification.
 - Program Improvement Plan.
 - · Program of Study.
- 5. Technical-level and Application-level courses receive .5 state weighted funding in an approved CTE pathway.





DESIGN, PRODUCTION AND REPAIR | ENGINEERING CAREER CLUSTER DESIGN

Energy Pathway

CIP CODE 14.4801

INTRODUCTORY LEVEL

Title	Code	Credit
★ Introduction to Energy	41100	0.5
Introduction to Environmental Science	41207	0.5

TECHNICAL LEVEL

Title	Code	Credit
Meteorology	03006	1
AP Environmental Science	03207	1
Mechanical Power Transmission Systems	13302	0.5
▲ Foundations of Electronics	21201	1
★ Energy Industry Fundamentals	41105	1
Energy, Power and Society	41150	1
Wind Energy Operations	41160	1
▲ Fundamentals of Electricity and Electronics	41170	1
Principles of Applied Engineering	41320	1

APPLICATION LEVEL

Title	Code	Credit
HVAC Technology	17056	0.5
Hydraulics and Pneumatics	39302	0.5
Workplace Experience in Energy	41250	0.5
Workplace Experience in Energy – Comprehensive	41260	1
Advanced Electricity and Electronics	41270	0.5
Materials Science in Engineering	41355	0.5

Required course for pathway approval.

Has a specific prerequisite course – see competency profile for details.

May offer either Fundamentals of Electricity and Electronics (41170) or Foundations of Electronics (21201) but not both.

- 1. Includes a minimum of three secondary-level credits.
- 2. Includes a work-based element.
- 3. Consist of a sequence:
 - · Introductory-level course.
 - Technical-level course.
 - · Application-level course.
- 4. Supporting documentation includes:
 - Articulation Agreement(s).Certification.

 - Program Improvement Plan.
 - Program of Study.
- 5. Technical-level and Application-level courses receive .5 state weighted funding in an approved CTE pathway.

DESIGN, PRODUCTION AND REPAIR | ENGINEERING CAREER CLUSTER DESIGN

Engineering and Applied Mathematics Pathway





INTRODUCTORT ELVEL		
Title	Code	Credit
Production Print Reading I	21108	0.5
★ Introduction to Engineering	41310	1

TECHNICAL LEVEL

Title	Code	Credit
▲ Engineering Design	21006	1
Robotics	21009	1
▲ Drafting/CAD	21107	1
Foundations of Electronics	21201	1
Principles of Applied Engineering	41320	1

APPLICATION LEVEL

Title	Code	Credit
Engineering Design and Development	21007	1
Digital Electronics	21008	1
Computer Integrated Manufacturing	21010	1
Civil Engineering and Architecture	21012	1
Aerospace Engineering	21013	1
Particular Topics in Engineering	21015	1
Workplace Experience in Engineering – Comprehensive	21048	1
Emerging Technologies	21053	1
Workplace Experience in Engineering	41048	0.5
Project Management	41350	0.5
Materials Science in Engineering	41355	0.5



Required course for pathway approval.



🛕 May offer either Engineering Design (21006) or Drafting/CAD (21107) but not both.

- 1. Includes a minimum of three secondary-level credits.
- 2. Includes a work-based element.
- 3. Consist of a sequence:
 - · Introductory-level course.

 - Technical-level course.Application-level course.
- 4. Supporting documentation includes:
 - · Articulation Agreement(s).
 - Certification.
 - Program Improvement Plan.
 - Program of Study.
- 5. Technical-level and Application-level courses receive .5 state weighted funding in an approved CTE pathway.





DESIGN, PRODUCTION AND REPAIR

MANUFACTURING CAREER CLUSTER DESIGN

Manufacturing Pathway

CIP CODE 48.0000

INTRODUCTORY LEVEL

Title	Code	Credit
☐ Introduction to Welding	13207	0.5
Production Print Reading I	21108	0.5
Introduction to Skilled Trades	38001	0.5

TECHNICAL LEVEL

Title	Code	Credit
⚠ Agricultural Welding I	18404	1
Robotics I	21009	1
▲ Welding Processes I	39207	1
Hand and Power Tools	40400	0.5

Production Strand

Title	Code	Credit
Production Methods I	13052	1
Machine Tool Technology	13203	1
Computer-Aided Machining (CAM) I	13204	1
Drafting/CAD	21107	1
Production Print Reading II	39108	0.5

Maintenance Strand

Title	Code	Credit
Mechanical Power Transmission Systems	13302	0.5
Foundations of Electronics	21201	1

- Production strand only.
- Has a specific prerequisite course see competency profile for details.
- Must take at least **ONE** credit of technical level course and application level course combined.
- ▲ May offer either 18404 and 18407 or 39207and 39208 but not both.

- 1. Includes a minimum of three secondary-level credits.
- 2. Includes a work-based element.
- 3. Consist of a sequence:
 - · Introductory-level course.
 - Technical-level course.
 - · Application-level course.
- 4. Supporting documentation includes:
 - · Articulation Agreement(s).
 - Certification.
 - Program Improvement Plan.
 - · Program of Study.
- 5. Technical-level and Application-level courses receive .5 state weighted funding in an approved CTE pathway.

DESIGN, PRODUCTION AND REPAIR | MANUFACTURING CAREER CLUSTER DESIGN Manufacturing Pathway 48.0000



APPLICATION LEVEL

Title	Code	Credit
₩ Work Experience in Manufacturing	13348	0.5
■ Work Experience in Manufacturing – Comprehensive	13998	1
▲ Agricultural Welding II	18407	1
▲ Welding Processes II	39208	1

Production Strand

Title	Code	Credit
Advanced Drafting/CAD	21150	1
Advanced Materials and Fabrication	38010	1
Automated Integrated Systems	39010	0.5
Production Methods II	39052	1
Computer-Aided Machining (CAM) II	39205	0.5

Maintenance Strand

Title	Code	Credit
Sheet Metal Technology	13205	0.5
Remodeling and Building Maintenance	17009	0.5
HVAC Technology	17056	0.5
Plumbing Technology	17058	0.5
Electrical Technology	17113	0.5
Digital Electronics	21008	1
Hydraulics and Pneumatics	39302	0.5

Production strand only.

Has a specific prerequisite course – see competency profile for details.

Must take at least **ONE** credit of technical level course and application level course combined.

May offer either 18404 and 18407or 39207and 39208 but not both.

- 1. Includes a minimum of three secondary-level credits.
- 2. Includes a work-based element.
- 3. Consist of a sequence:
 - · Introductory-level course.

 - Technical-level course.Application-level course.
- 4. Supporting documentation includes:
 - Articulation Agreement(s).
 - Certification.
 - Program Improvement Plan.
 - Program of Study.
- 5. Technical-level and Application-level courses receive .5 state weighted funding in an approved CTE pathway.



DESIGN, PRODUCTION AND REPAIR

TRANSPORTATION CAREER CLUSTER DESIGN

Aviation Maintenance Pathway

CIP CODE 47.0608

INTRODUCTORY LEVEL

Title	Code	Credit
Production Print Reading I	21108	0.5
Introduction to Skilled Trades	38001	0.5

TECHNICAL LEVEL

Title	Code	Credit
★ Hand and Power Tools	40400	0.5
★ Aviation Fundamentals	40410	0.5
Aviation Systems	40420	1

Avionics Strand

Title	Code	Credit
Foundations of Electronics	21201	1

Airframe Strand

Title	Code	Credit
Production Methods I	13052	1
Mechanical Power Transmission Systems	13302	0.5

- Required course for pathway approval.
- Has a specific prerequisite course see competency profile for details.
- Must take at least **ONE** credit of technical level course and application level course combined.

- 1. Includes a minimum of three secondary-level credits.
- 2. Includes a work-based element.
- 3. Consist of a sequence:
 - · Introductory-level course.
 - · Technical-level course.
 - · Application-level course.
- 4. Supporting documentation includes:
 - · Articulation Agreement(s).
 - · Certification.
 - Program Improvement Plan.
 - · Program of Study.
- 5. Technical-level and Application-level courses receive .5 state weighted funding in an approved CTE pathway.

DESIGN, PRODUCTION AND REPAIR | TRANSPORTATION CAREER CLUSTER DESIGN Aviation Maintenance Pathway 47.0608



APPLICATION LEVEL

Title	Code	Credit
Unmanned Aircraft Systems(UAS)	40490	1
■ Work Experience in Aviation	40700	0.5
■ Work Experience in Aviation–Comprehensive	40701	1

Avionics Strand

Title	Code	Credit
Digital Electronics	21008	1
AC Electronics	40450	1
DC Electronics	40460	1

Airframe Strand

Title	Code	Credit
Hydraulics and Pneumatics	39302	0.5
Flight Training	40540	1

Required course for pathway approval.

Has a specific prerequisite course – see competency profile for details.

Must take at least **ONE** credit of technical level course and application level course combined.

- 1. Includes a minimum of three secondary-level credits.
- 2. Includes a work-based element.
- 3. Consist of a sequence:
 - · Introductory-level course.
 - · Technical-level course.
 - · Application-level course.
- 4. Supporting documentation includes:
 - · Articulation Agreement(s).
 - · Certification.
 - Program Improvement Plan.
 - Program of Study.
- 5. Technical-level and Application-level courses receive .5 state weighted funding in an approved CTE pathway.



DESIGN, PRODUCTION AND REPAIR | TRANSPORTATION CAREER CLUSTER DESIGN

Mobile Equipment Maintenance Pathway

CIP CODE 47.9999

INTRODUCTORY LEVEL

Title	Code	Credit
Business Essentials	12050	0.5
☐ Introduction to Skilled Trades	38001	0.5
Automotive Information	40050	0.5
☐ Introduction to Transportation	40100	0.5

TECHNICAL LEVEL

Technology Strand I

Title	Code	Credit
Entrepreneurship	12053	0.5
Alternative Power	40210	0.5
Small Engine and Powertrains I	40212	0.5
Engine Mechanical Repair	40216	0.5
Diesel Engine Technology	40218	0.5

Technology Strand II

Title	Code	Credit
General Service I	40150	1

Technology Strand III

Title	Code	Credit
Electronics and Electrical Systems I	40200	1
Brakes I	40204	0.5
Drive Train Technology	40208	0.5
Engine Performance I	40220	0.5
Steering and Suspension I	40224	0.5
Mobile HVAC	40228	0.5

Collision Strand

Title	Code	Credit
Entrepreneurship	12053	0.5
Auto Collision I	40300	1
Auto Refinishing	40310	1

- Must choose **ONE** of these introductory courses for pathway approval.
- Will NOT COUNT as one of the three required secondary level credits for pathway approval but is funded.

- 1. Includes a minimum of three secondary-level credits.
- 2. Includes a work-based element.
- 3. Consist of a sequence:
 - Introductory-level course.
 - · Technical-level course.
 - · Application-level course.
- 4. Supporting documentation includes:
 - · Articulation Agreement(s).
 - · Certification.
 - · Program Improvement Plan.
 - Program of Study.
- 5. Technical-level and Application-level courses receive .5 state weighted funding in an approved CTE pathway.

DESIGN, PRODUCTION AND REPAIR | TRANSPORTATION CAREER CLUSTER DESIGN Mobile Equipment Maintenance Pathway 47.9999



APPLICATION LEVEL

Technology Strand I

Title	Code	Credit
Small Engines and Powertrains II	40214	0.5
■ • Work Experience in Transportation	40250	0.5
■ • Work Experience in Transportation – Comprehensive	40251	1

Technology Strand II

Title	Code	Credit
General Service II	40152	1
General Service III	40154	1

Technology Strand III

Title	Code	Credit
Electronics and Electrical Systems II	40202	1
Brakes II	40206	0.5
● Engine Performance II	40222	1
Steering and Suspension II	40226	0.5

Collision Strand

Title	Code	Credit
□ Work Experience in Transportation	40250	0.5
■ Work Experience in Transportation – Comprehensive	40251	1
Auto Collision II	40302	1
Auto Refinishing II	40312	1

- Has a specific prerequisite course see competency profile for details.
- Must choose **ONE** of these courses for the Technology Strand I.
- Must take at least **ONE** credit of technical level course and application level course combined.
- Must choose **ONE** of these courses for the Collision Strand.

- 1. Includes a minimum of three secondary-level credits.
- 2. Includes a work-based element.
- 3. Consist of a sequence:
 - · Introductory-level course.
 - · Technical-level course.
 - Application-level course.
- 4. Supporting documentation includes:
 - · Articulation Agreement(s).
 - · Certification.
 - Program Improvement Plan.
 - · Program of Study.
- 5. Technical-level and Application-level courses receive .5 state weighted funding in an approved CTE pathway.



FAMILY AND CONSUMER SCIENCES

HOSPITALITY AND TOURISM CAREER CLUSTER DESIGN

Restaurant and Event Management Pathway

CIP CODE 12.0504

INTRODUCTORY LEVEL

Title	Code	Credit
Business Essentials	12050	0.5
Introduction to Family and Consumer Sciences	19251	1
Career and Life Planning	19258	0.5

TECHNICAL LEVEL

Select a strand at division.

Title	Code	Credit
★ Culinary Essentials	16052	0.5
Nutrition and Wellness	19253	0.5

Event Planning and Management Strand

Title	Code	Credit
Foundations of Travel and Tourism	16151	0.5
★ Event Planning and Management	34052	0.5

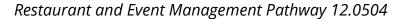
Culinary Arts and Management Strand

Title	Code	Credit
★ Culinary Arts I	16053	1
• Culinary Arts II	16055	0.5
Baking and Pastry I	16056	0.5
Baking and Pastry II	16057	0.5
Food Science	19254	1
Event Planning and Management	34052	0.5

- * Required course for pathway approval.
- Has a specific prerequisite course see competency profile for details.
- * Required course in the strand.
- Courses may be offered after THREE credits in the technical level have been selected.

- 1. Includes a minimum of three secondary-level credits.
- 2. Includes a work-based element.
- 3. Consist of a sequence:
 - · Introductory-level course.
 - · Technical-level course.
 - · Application-level course.
- 4. Supporting documentation includes:
 - · Articulation Agreement(s).
 - · Certification.
 - Program Improvement Plan.
 - Program of Study.
- 5. Technical-level and Application-level courses receive .5 state weighted funding in an approved CTE pathway.

FAMILY AND CONSUMER SCIENCES | HOSPITALITY AND TOURISM CAREER CLUSTER DESIGN





Additional Courses

Title	Code	Credit
Entrepreneurship	12053	0.5
Principles of Marketing	12164	1

APPLICATION LEVEL

Event Planning and Management Strand

Title	Code	Credit
Community Connections	19297	0.5
Career Connections	19298	0.5
Applied Business Development	32200	1

Culinary Arts and Management Strand

Title	Code	Credit
Culinary Workplace Experience	16098	1
Community Connections	19297	0.5
Career Connections	19298	0.5

- * Required course for pathway approval.
- Has a specific prerequisite course see competency profile for details.
- Required course in the strand.
- **6** Courses may be offered after THREE credits in the technical level have been selected.

- 1. Includes a minimum of three secondary-level credits.
- 2. Includes a work-based element.
- 3. Consist of a sequence:
 - · Introductory-level course.
 - · Technical-level course.
 - Application-level course.
- 4. Supporting documentation includes:
 - · Articulation Agreement(s).
 - · Certification.
 - Program Improvement Plan.
 - Program of Study.
- 5. Technical-level and Application-level courses receive .5 state weighted funding in an approved CTE pathway.



FAMILY AND CONSUMER SCIENCES | HOSPITALITY AND TOURISM CAREER CLUSTER DESIGN

Travel and Tourism Pathway

CIP CODE 52.0901

INTRODUCTORY LEVEL

Title	Code	Credit
Business Essentials	12050	0.5
Introduction to Family and Consumer Sciences	19251	1
Career and Life Planning	19258	0.5

TECHNICAL LEVEL

Title	Code	Credit
Entrepreneurship	12053	0.5
Principles of Marketing	12164	1
Culinary Essentials	16052	0.5
■ Foundations of Hospitality and Lodging	16101	0.5
■ Foundations of Travel and Tourism	16151	0.5
Nutrition and Wellness	19253	0.5
★ Event Planning and Management	34052	0.5

APPLICATION LEVEL

Title	Code	Credit
Hospitality and Lodging Management	16148	1
Community Connections	19297	0.5
Career Connections	19298	0.5

- Required course for pathway approval.
- Must choose at least **ONE** of these Technical level courses for pathway approval.
- Has a prerequisite of **ONE** credit within Human Services pathway courses.

- 1. Includes a minimum of three secondary-level credits.
- 2. Includes a work-based element.
- 3. Consist of a sequence:
 - · Introductory-level course.
 - · Technical-level course.
 - · Application-level course.
- 4. Supporting documentation includes:
 - Articulation Agreement(s).Certification.

 - Program Improvement Plan.
 - Program of Study.
- 5. Technical-level and Application-level courses receive .5 state weighted funding in an approved CTE pathway.

HUMAN SERVICES CAREER CLUSTER DESIGN



Early Childhood Development and Services Pathway

CIP CODE 19.0709

INTRODUCTORY LEVEL

Title	Code	Credit
Introduction to Education	19199	0.5
Introduction to Family and Consumer Sciences	19251	1
Career and Life Planning	19258	0.5

TECHNICAL LEVEL

Title	Code	Credit
Leadership Service in Action	19257	0.5
Teaching Observation	42251	0.5

Farly Childhood Education Strand

Title	Code	Credit
Orientation to Early Childhood Development	19051	1
Foundations of Early Childhood Development	19052	1

Parly Childhood Related Services Strand

Title	Code	Credit
Foundations of Early Childhood Development	19052	1
Family Studies	19255	0.5
Human Growth and Development–Early Years	45004	0.5

APPLICATION LEVEL

Title	Code	Credit
Early Childhood Applications	19098	1
Community Connections	19297	0.5
Career Connections	19298	0.5

Must teach **all** courses in the strand of your choice.

Has a prerequisite of **ONE** credit within Human Services Pathway courses.

- 1. Includes a minimum of three secondary-level credits.
- 2. Includes a work-based element.
- 3. Consist of a sequence:
 - · Introductory-level course.

 - Technical-level course.Application-level course.
- 4. Supporting documentation includes:
 - Articulation Agreement(s).
 - Certification.
 - Program Improvement Plan.
 - Program of Study.
- 5. Technical-level and Application-level courses receive .5 state weighted funding in an approved CTE pathway.



FAMILY AND CONSUMER SCIENCES | HUMAN SERVICES CAREER CLUSTER DESIGN

Family, Community and Consumer Services Pathway

CIP CODE 19.0799

INTRODUCTORY LEVEL

Title	Code	Credit
Introduction to Family and Consumer Sciences	19251	1
Career and Life Planning	19258	0.5

TECHNICAL LEVEL

Title	Code	Credit
Culinary Essentials	16052	0.5
Nutrition and Wellness	19253	0.5
★ Family Studies	19255	0.5
Leadership Service in Action	19257	0.5
Relationships and Personal Development	19260	0.5
■ Human Growth and Development – Early Years	45004	0.5
□ Lifespan Development	45014	0.5

APPLICATION LEVEL

Title	Code	Credit
Community Connections	19297	0.5
• Career Connections	19298	0.5

- Required course for pathway approval.
- Has a prerequisite of ONE credit within Human Services Pathway courses.
- Must choose **ONE** of these Technical courses for pathway approval.

- 1. Includes a minimum of three secondary-level credits.
- 2. Includes a work-based element.
- 3. Consist of a sequence:
 - · Introductory-level course.
 - Technical-level course.
 - · Application-level course.
- 4. Supporting documentation includes:
 - Articulation Agreement(s).Certification.

 - Program Improvement Plan.
 - Program of Study.
- 5. Technical-level and Application-level courses receive .5 state weighted funding in an approved CTE pathway.

FAMILY AND CONSUMER SCIENCES | HUMAN SERVICES CAREER CLUSTER DESIGN

Fashion, Apparel, Interior Design (FAID) Pathway



INTRODUCTORY LEVEL

Title	Code	Credit
Introduction to Family and Consumer Sciences	19251	1
Career and Life Planning	19258	0.5
n Drafting/Print Reading	21102	0.5
Introduction to Drawing	30005	0.5

TECHNICAL LEVEL

Title	Code	Credit
★ Essentials of FAID	30110	0.5
FAID Merchandising and Entrepreneurship	30112	0.5

Fashion and Apparel Design (Strand A)

Title	Co	ode	Credit
★ Apparel Production I	19	9201	0.5
Apparel Production II	19	9203	0.5
★ Fashion Trends	30	0111	0.5

Interior Design (Strand B)

Title	Code	Credit
★ Interior Design I	19263	0.5
n Drafting/Architecture I	21103	1
● Interior Design II	22212	0.5

APPLICATION LEVEL

Strands A and B

Title	Code	Credit
Career Connections	19298	0.5
FAID Studio	30160	1

Required course for pathway approval per strand.

Only for Interior Design Strand.

Has a prerequisite course - see competency profile for details.

- 1. Includes a minimum of three secondary-level credits.
- 2. Includes a work-based element.
- 3. Consist of a sequence:
 - · Introductory-level course.

 - Technical-level course.Application-level course.
- 4. Supporting documentation includes:
 - Articulation Agreement(s).
 - Certification.
 - Program Improvement Plan.
 - Program of Study.
- 5. Technical-level and Application-level courses receive .5 state weighted funding in an approved CTE pathway.





HEALTH AND BIOSCIENCES CAREER CLUSTER DESIGN

Biotechnology Pathway

CIP CODE 26.1201

INTRODUCTORY LEVEL

Title	Code	Credit
Chemistry	03101	1
Computing Systems (Grade 8/ Grade 9)	60002/10002	1
Computer Applications (Grade 8/ Grade 9)	60004/10004	0.5

TECHNICAL LEVEL

Title	Code	Credit
▲ Anatomy and Physiology	03053	1
Human Body Systems	14102	1
Pharmacology	14253	1
▲ Biotechnology Essentials	21014	1

Biomedical Strand

Title	Code	Credit
Medical Interventions	14105	1
Principles of Biomedical Science	14251	1
Robotics I	21009	1

Biochemistry Strand

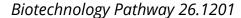
Title	Code	Credit
Applied Biochemistry	03203	1
Plant and Soil Science	18058	1
Food Science	19254	1



Biotechnology Essentials OR Anatomy and Physiology is required for pathway approval.

- 1. Includes a minimum of three secondary-level credits.
- 2. Includes a work-based element.
- 3. Consist of a sequence:
 - · Introductory-level course.
 - Technical-level course.
 - · Application-level course.
- 4. Supporting documentation includes:
 - Articulation Agreement(s).
 - · Certification.
 - Program Improvement Plan.
 - Program of Study.
- 5. Technical-level and Application-level courses receive .5 state weighted funding in an approved CTE pathway.

HEALTH | HEALTH AND BIOSCIENCES CAREER CLUSTER DESIGN





APPLICATION LEVEL

Title	Code	Credit
Bioscience Workplace Experience	14998	1
Applied Biotechnology	18320	1

Biomedical Strand

Title	Code	Credit
Biomedical Innovation	14255	1
Emerging Technologies	21053	1

Biochemistry Strand

Title	Code	Credit
Particular Topics in Engineering	21015	1

- 1. Includes a minimum of three secondary-level credits.
- 2. Includes a work-based element.
- 3. Consist of a sequence:
 - Introductory-level course.

 - Technical-level course.Application-level course.
- 4. Supporting documentation includes:
 - · Articulation Agreement(s).
 - Certification.
 - Program Improvement Plan.
 - Program of Study.
- 5. Technical-level and Application-level courses receive .5 state weighted funding in an approved CTE pathway.



HEALTH | HEALTH AND BIOSCIENCES CAREER CLUSTER DESIGN

Health Science Pathway

CIP CODE 51.3901

INTRODUCTORY LEVEL

Title	Code	Credit
Chemistry	03101	1
Introduction to Health Care	14000	0.5

TECHNICAL LEVEL

Title	Code	Credit
★ Anatomy and Physiology	03053	1
Fundamentals of Emergency Services	14055	0.5
Human Body Systems	14102	1
Medical Interventions	14105	1
Medical Terminology	14154	0.5
Health Care Essentials I	14254	0.5
Nutrition and Wellness	19253	0.5
Health Care Essentials II	36254	1
EMS First Responder	44050	0.5

Sports Med/Rehabilitation Strand

Title	Code	Credit
Foundations of Rehab	14060	0.5
Care of Athletes	14062	0.5
Sports Medicine I	14072	1

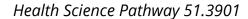
Allied Health Strand

Title	Code	Credit
Medical Imaging	14103	0.5
Principles of Phlebotomy	14104	0.5
Pharmacology	14253	1

- Required course for pathway approval.
- Has a specific prerequisite course see competency profile for details.
- Courses may require specialized teacher certification and/or offer professional certification.

- 1. Includes a minimum of three secondary-level credits.
- 2. Includes a work-based element.
- 3. Consist of a sequence:
 - Introductory-level course.
 - · Technical-level course.
 - · Application-level course.
- 4. Supporting documentation includes:
 - Articulation Agreement(s).
 - Certification.
 - Program Improvement Plan.
 - · Program of Study.
- 5. Technical-level and Application-level courses receive .5 state weighted funding in an approved CTE pathway.

HEALTH | HEALTH AND BIOSCIENCES CAREER CLUSTER DESIGN





APPLICATION LEVEL

Title	Code	Credit
Certified Patient Care Technician	14202	0.5
Certified Nursing Assistant	14997	0.5
Certified Medication Aide	36156	0.5
Health Care Work Experience I	36992	1
Health Care Work Experience II	36993	2

Sports Med/Rehabilitation Strand

Title	Code	Credit
Sports Medicine II	14073	1

Allied Health Strand

Title	Code	Credit
Home Health Aide	36053	0.5
Principles of Pharmacy	36157	1
EKG Technician	36991	0.5
EMT I	44060	1
EMT II	44065	1

Required course for pathway approval.

Has a specific prerequisite course – see competency profile for details.

Courses may require specialized teacher certification and/or offer professional certification.

- 1. Includes a minimum of three secondary-level credits.
- 2. Includes a work-based element.
- 3. Consist of a sequence:
 - · Introductory-level course.

 - Technical-level course.Application-level course.
- 4. Supporting documentation includes:
 - · Articulation Agreement(s).
 - Certification.
 - Program Improvement Plan.
 - Program of Study.
- 5. Technical-level and Application-level courses receive .5 state weighted funding in an approved CTE pathway.



INFORMATION TECHNOLOGY CAREER CLUSTER DESIGN

Information Support and Services Pathway

CIP CODE 11.0301

INTRODUCTORY LEVEL

Title	Code	Credit
Computing Systems (Grade 8/ Grade 9)	60002/10002	1
Computer Applications (Grade 8/ Grade 9)	60004/10004	0.5

TECHNICAL LEVEL

Title	Code	Credit
★ Foundations of Information Technology	10001	1

APPLICATION LEVEL

Title	Code	Credit
Cybersecurity I	10020	1
Information Support and Services I	10052	1
● Information Support and Services II	10097	1
Work-based Learning in Information Support and Services	10098	1
Cybersecurity II	10900	1

Required course for pathway approval.

Has a specific prerequisite course – see competency profile for details.

- 1. Includes a minimum of three secondary-level credits.
- 2. Includes a work-based element.
- 3. Consist of a sequence:
 - · Introductory-level course.
 - Technical-level course.
 - · Application-level course.
- 4. Supporting documentation includes:
 - Articulation Agreement(s).Certification.

 - · Program Improvement Plan.
 - Program of Study.
- 5. Technical-level and Application-level courses receive .5 state weighted funding in an approved CTE pathway.

MEDIA AND TECHNOLOGY | INFORMATION TECHNOLOGY CAREER CLUSTER DESIGN

Media Design and Communications Pathway



INTRODUCTORY I EVEL

Title	Code	Credit
Introduction to Web and Digital Media	05254	0.5
Computer Applications (Grade 8/ Grade 9)	60004/10004	0.5
Drawing for Designers	30006	0.5

TECHNICAL LEVEL

Title	Code	Credit
Graphic Design II	05162	1
Computer Programming	10152	1
Web Design	10201	1
Interactive Media	10203	1
Principles of Illustration	30101	0.5
Graphic Design I	30102	0.5

Optional Support Courses: Content Creation

Title	Code	Credit
2D Animation	10202	1
3D Animation	10210	1
Journalism and Media Communications	30100	0.5
Audio/Video Production I	30103	0.5
Digital Media Technology	30104	0.5
Photo Imaging	30105	0.5
Media and Public Relations	43115	0.5

- 1. Includes a minimum of three secondary-level credits.
- 2. Includes a work-based element.
- 3. Consist of a sequence:
 - · Introductory-level course.

 - Technical-level course.Application-level course.
- 4. Supporting documentation includes:
 - · Articulation Agreement(s).
 - Certification.
 - Program Improvement Plan.
 - Program of Study.
- 5. Technical-level and Application-level courses receive .5 state weighted funding in an approved CTE pathway.





MEDIA AND TECHNOLOGY | INFORMATION TECHNOLOGY CAREER CLUSTER DESIGN Media Design and Communications Pathway 11.0801

APPLICATION LEVEL

Graphic Design Strand

Title	Code	Credit
Graphic Design Workplace Experience	10248	1
Applied Graphic Design	31090	1

Web And Digital Design Strand

Title	Code	Credit
Applied Game Design	10165	1
Web and Design Workplace Experience	31096	1

Optional Support Courses: Content Creation

Title	Code	Credit
Audio/Video Production II	30150	1
Media Design and Production	30151	1
Advanced Media Design and Production	31091	1

- 1. Includes a minimum of three secondary-level credits.
- 2. Includes a work-based element.
- 3. Consist of a sequence:
 - · Introductory-level course.
 - Technical-level course.
 - Application-level course.
- 4. Supporting documentation includes:
 - Articulation Agreement(s).Certification.

 - Program Improvement Plan.
 - Program of Study.
- 5. Technical-level and Application-level courses receive .5 state weighted funding in an approved CTE pathway.

MEDIA AND TECHNOLOGY | INFORMATION TECHNOLOGY CAREER CLUSTER DESIGN

Networking and Telecommunications Pathway





Title	Code	Credit
Computing Systems (Grade 8/ Grade 9)	60002/10002	1
Computer Applications (Grade 8/ Grade 9)	60004/10004	0.5
IoT Internet of Things	10006/60006	0.5

TECHNICAL LEVEL

Title	Code	Credit
★ Foundations of Information Technology	10001	1
Telecommunications	10106	1
Digital Electronics	21008	1
GIS Technology	21058	1
Fundamentals of Electricity and Electronics	41170	1

APPLICATION LEVEL

Title	Code	Credit
Network Systems I	10112	1
Network Systems II	10147	1
Telecom Workplace Experience	11048	1
Applied Telecommunications	11049	1
GIS Spatial Applications	21112	1

Required course for pathway approval.

- 1. Includes a minimum of three secondary-level credits.
- 2. Includes a work-based element.
- 3. Consist of a sequence:
 - · Introductory-level course.

 - Technical-level course.Application-level course.
- 4. Supporting documentation includes:
 - · Articulation Agreement(s).
 - Certification.
 - Program Improvement Plan.
 - Program of Study.
- 5. Technical-level and Application-level courses receive .5 state weighted funding in an approved CTE pathway.





MEDIA AND TECHNOLOGY | INFORMATION TECHNOLOGY CAREER CLUSTER DESIGN

Programming and Software Development Pathway

CIP CODE 11.0201

INTRODUCTORY LEVEL

Title	Code	Credit
Computing Systems (Grade 8/ Grade 9)	60002/10002	1
Computer Applications (Grade 8/ Grade 9)	60004/10004	0.5
Introduction to Computer Coding	31001	0.5
Introduction to Physical Computing	31002	0.5

TECHNICAL LEVEL

Title	Code	Credit
Database Applications	10053	1
Data System/Processing	10054	1
Computer Programming	10152	1
Computer Programming – Other Languages	10156	1
Web Design	10201	1
AP Computer Science Principles	31094	1
Technical Introduction to Computer Science	41010	1

APPLICATION LEVEL

Title	Code	Credit
Cybersecurity I	10020	1
AP Computer Science A	10157	1
IB Computing	10159	1
Particular Topics in Computer Programming	10160	1
Work-based Learning in Programming and Software Development	10198	1
Cybersecurity II	10900	1

Has a specific prerequisite course – see competency profile for details.

- 1. Includes a minimum of three secondary-level credits.
- 2. Includes a work-based element.
- 3. Consist of a sequence:
 - · Introductory-level course.
 - Technical-level course.
 - · Application-level course.
- 4. Supporting documentation includes:
 - Articulation Agreement(s).Certification.

 - Program Improvement Plan.
 - Program of Study.
- 5. Technical-level and Application-level courses receive .5 state weighted funding in an approved CTE pathway.

PUBLIC SERVICES



EDUCATION AND TRAINING CAREER CLUSTER DESIGN

Teaching/Training

CIP CODE 13.0101

INTRODUCTORY LEVEL

Title	Code	Credit
Introduction to Education	19199	0.5
Introduction to Family and Consumer Sciences	19251	1
Career and Life Planning	19258	0.5

TECHNICAL LEVEL

Title	Code	Credit
★ Teaching as a Career	19151	1
Coaching and Leadership	19154	0.5
Technology for Teachers	19155	0.5
Family Studies	19255	0.5
Teaching Observation	42251	0.5
Human Growth and Development – Early Years	45004	0.5
Lifespan Development	45014	0.5

APPLICATION LEVEL

Title	Code	Credit
Teaching Internship	19152	1
Educational Leadership	19198	0.5

Required course for pathway approval.

Must choose **ONE** of these courses at the technical level for pathway approval.

Alternate course Orientation to Early Childhood Development (19051).

- 1. Includes a minimum of three secondary-level credits.
- 2. Includes a work-based element.
- 3. Consist of a sequence:
 - · Introductory-level course.

 - Technical-level course.Application-level course.
- 4. Supporting documentation includes:
 - Articulation Agreement(s).
 - Certification.
 - Program Improvement Plan.
 - Program of Study.
- 5. Technical-level and Application-level courses receive .5 state weighted funding in an approved CTE pathway.



PUBLIC SERVICES

GOVERNMENT AND PUBLIC ADMINISTRATION CAREER CLUSTER DESIGN

Government and Public Administration Pathway

CIP CODE 44.0401

INTRODUCTORY LEVEL

Title	Code	Credit
Career and Life Planning	19258	0.5
★ Introduction to Government and Public Administration	43001	0.5

TECHNICAL LEVEL

Title	Code	Credit
★ Government and Public Administration Fundamentals	43105	0.5
IT for Service Professions	44010	0.5
Lifespan Development	45014	0.5

Public Administration Strand

Title	Code	Credit
Business Management	12052	0.5
★ Business Law	12054	0.5
Accounting	12104	1
Business Economics	12105	0.5

Pre-Law Legal Assistance Strand

Title	Code	Credit
Government and Public Media Relations	04990	0.5
★ Business Law	12054	0.5
Business Economics	12105	0.5
★ Practical Law	44300	0.5

Required course for pathway approval.

Required course in the strand.

- 1. Includes a minimum of three secondary-level credits.
- 2. Includes a work-based element.
- 3. Consist of a sequence:
 - · Introductory-level course.
 - · Technical-level course.
 - · Application-level course.
- 4. Supporting documentation includes:
 - · Articulation Agreement(s).
 - · Certification.
 - Program Improvement Plan.
 - · Program of Study.
- 5. Technical-level and Application-level courses receive .5 state weighted funding in an approved CTE pathway.

PUBLIC SERVICES

APPLICATION LEVEL

Title	Code	Credit
Career Connections	19298	0.5
Governance Applications	43250	1
Foundations in Law	44305	1
Legal Proceedings	44310	1

* Required course for pathway approval.

★ Required course in the strand.

- 1. Includes a minimum of three secondary-level credits.
- 2. Includes a work-based element.
- 3. Consist of a sequence:
 - · Introductory-level course.

 - Technical-level course.Application-level course.
- 4. Supporting documentation includes:
 - Articulation Agreement(s).
 - Certification.
 - Program Improvement Plan.
 - Program of Study.
- 5. Technical-level and Application-level courses receive .5 state weighted funding in an approved CTE pathway.



PUBLIC SERVICES | LAW, PUBLIC SAFETY, CORRECTIONS AND SECURITY CAREER CLUSTER DESIGN

LAW, PUBLIC SAFETY, CORRECTIONS AND SECURITY CAREER CLUSTER DESIGN

Corrections, Security, Law and Law Enforcement Services Pathway

CIP CODE 43.0199

INTRODUCTORY LEVEL

Title	Code	Credit
★ Introduction to Law, Public Safety, Corrections and Security (LPSCS)	44001	0.5

TECHNICAL LEVEL

Pre-Law Strand

Title	Code	Credit
Business Communications	12009	0.5
Business Management	12052	0.5
★ Business Law	12054	0.5
Accounting	12104	1
Business Economics	12105	0.5
★ Practical Law	44300	0.5

Law Enforcement Strand

Title	Code	Credit
EMS First Responder	44050	0.5
Hazardous Materials for the First Responder	44070	0.5
Law Enforcement I	44200	1
Forensic Science I	44225	1

Required course for pathway approval.

• Has a specific prerequisite course – see competency profile for details.

Courses may require specialized teacher certification and/or offer professional certification.

- 1. Includes a minimum of three secondary-level credits.
- 2. Includes a work-based element.
- 3. Consist of a sequence:
 - Introductory-level course.
 - · Technical-level course.
 - · Application-level course.
- 4. Supporting documentation includes:
 - · Articulation Agreement(s).
 - Certification.
 - Program Improvement Plan.
 - · Program of Study.
- 5. Technical-level and Application-level courses receive .5 state weighted funding in an approved CTE pathway.

PUBLIC SERVICES | LAW, PUBLIC SAFETY, CORRECTIONS AND SECURITY CAREER CLUSTER DESIGN Corrections, Security, Law and Law Enforcement Services Pathway 43.0199



APPLICATION LEVEL

Pre-Law Strand

Title	Code	Credit
Foundations in Law	44305	1
Legal Proceedings	44310	1
Work Experience in LPSCS	44298	0.5

Law Enforcement Strand

Title	Code	Credit
Law Enforcement II	44201	1
Certified Protection Officer	44210	0.5
Corrections Officer	44215	0.5
Forensic Science II	44226	1
Work Experience in LPSCS	44298	0.5

Required course for pathway approval.

Has a specific prerequisite course – see competency profile for details.

Courses may require specialized teacher certification and/or offer professional certification.

- 1. Includes a minimum of three secondary-level credits.
- 2. Includes a work-based element.
- 3. Consist of a sequence:
 - · Introductory-level course.

 - Technical-level course.Application-level course.
- 4. Supporting documentation includes:
 - Articulation Agreement(s).
 - Certification.
 - Program Improvement Plan.
 - Program of Study.
- 5. Technical-level and Application-level courses receive .5 state weighted funding in an approved CTE pathway.



PUBLIC SERVICES | LAW, PUBLIC SAFETY, CORRECTIONS AND SECURITY CAREER CLUSTER DESIGN

Emergency and Fire Management Services Pathway

CIP CODE 43.0299

INTRODUCTORY LEVEL

Title	Code	Credit
★ Introduction to Law, Public Safety, Corrections and Security (LPSCS)	44001	0.5
Introduction to Emergency Medical Services (EMS)	44005	0.5

Technical Level

Title	Code	Credit
Medical Terminology	14154	0.5
EMS First Responder	44050	0.5
Hazardous Materials for the First Responder	44070	0.5
Fire Service Special Operations	44080	0.5

Application Level

Title	Code	Credit
EMT I	44060	1
EMT II	44065	1
Fire Science I	44100	1
Fire Science II	44101	1
Work Experience in LPSCS	44298	0.5

Required course for pathway approval.

Courses may require specialized teacher certification and/or offer professional certification.

Prerequisite courses: 44060 and 44065 OR 44100 and 44101.

- 1. Includes a minimum of three secondary-level credits.
- 2. Includes a work-based element.
- 3. Consist of a sequence:
 - · Introductory-level course.
 - Technical-level course.
 - Application-level course.
- 4. Supporting documentation includes:
 - Articulation Agreement(s).Certification.

 - · Program Improvement Plan.
 - Program of Study.
- 5. Technical-level and Application-level courses receive .5 state weighted funding in an approved CTE pathway.

KANSAS CARFFR GUIDANCF HANDBOOK 2025-2026

Kansas CTE Terminology

As we design and implement the Career Clusters/Pathways Program of Study into the Kansas educational system, it is imperative to have some common terms and definitions that are used consistently throughout the state. To that end, we provide the following terms and definitions as a resource.

APPLICATION-LEVEL COURSE: This is an advanced level course that builds on the technical level course and includes opportunities for the learner to demonstrate knowledge attained through practical application of skills. It should include work-based learning experiences such as an internship, health science clinical, supervised agricultural experience (SAE), work simulation or school-based endeavor (store, etc.).

ARTICULATION: This is a systematic, seamless student transition process from secondary to postsecondary education that maximizes use of resources and minimizes duplication.

ARTICULATION AGREEMENT: A written commitment agreed upon at the state level or approved annually by the lead administrators of a secondary institution and a postsecondary institution, or a subbaccalaureate degree granting postsecondary institution and a baccalaureate degree granting institution; a program designed to provide students with a nonduplicative sequence of progressive achievement leading to technical skill proficiency, a credential, a certificate or a degree and is linked through credit transfer agreements between the two institutions {[20 U.S. Code § 2302 Section 3, Definition 4] Perkins Act of 2006: The Official Guide}. For Kansas use: the articulation agreement does not have to include a credit transfer agreement (advanced placement credit). It must include a seamless progression from one level to the next and may include such incentives as scholarships.

CAREER AND TECHNICAL EDUCATION (CTE): CTE is organized educational activities that offer a sequence of courses that provide individuals with 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, high-wage or in-demand industry sectors or occupations. The academic skills shall be, at the secondary level, aligned with the challenging state academic standards adopted by the Elementary and Secondary Education Act (ESEA). It provides technical skill proficiency leading to an industry-recognized credential, a certificate, or an associate degree and may include prerequisite courses (other than a remedial course) that meet the other requirements; and include competency-based, work-based or other applied learning that supports the development of academic knowledge, higher-order reasoning and problem-solving skills, work attitudes, employability skills, technical skills, and occupation-specific skills, and knowledge of all aspects of an industry, including entrepreneurship, of an individual [Section 3 (5) Carl D. Perkins Career and Technical Education Act of 2006 [Public Law 88–210; Dec. 18, 1963] [as amended through Strengthening Career and Technical Education for the 21st Century Act, P.L. 116–6, Enacted Feb. 15, 2019.]

career and technical education (cte) course: A CTE course (for an approved cluster/pathway) is one in a progression leading from introductory to technical to application levels that support state and national standards and competencies. The foundation for CTE courses is the inclusion of knowledge and skills that all students should achieve for a given career. Each course is required to provide enhanced and improved instruction through the integration of rigorous academics, career success skills, career development skills and student leadership. Courses may include experience-based learning opportunities. Courses, if applicable, can be articulated with a postsecondary institution for advanced placement credit. A course can be a part of a sequence of courses that creates an overall program of study assisting the student in preparing an individual plan of study (IPS).

CAREER AND TECHNICAL EDUCATION (CTE) SEQUENCE OF COURSES: These courses include the career cluster pathway knowledge and skills as recognized by the career clusters. These courses provide learners with rigorous content aligned with challenging academic standards and relevant technical knowledge and skills needed to prepare for further education and careers in current or emerging professions. They provide technical skill proficiency, an industry-recognized credential, a certificate, or a postsecondary degree, and may include prerequisite courses (other than remedial courses) that meet other requirements. Career and technical education courses may begin at eighth-grade and do not include career exploration courses. Academic courses are counted only if they reflect industry skill standards.

CAREER AND TECHNICAL STUDENT ORGANIZATIONS (CTSOs): These are student-led organizations which are aligned and integrated into CTE programs at the middle, secondary and/or postsecondary institutions. Members develop and demonstrate leadership, personal growth, civic engagement, technical skills and 21st century skills in authentic, real-world applications.

CAREER CLUSTER(S): These are divisions of the seven Kansas fields that include occupations organized around knowledge and skills that have common characteristics and job duties. Kansas identifies the following 15 broad clusters:

- 1. Agriculture, Food and Natural Resources
- 2. Architecture and Construction
- 3. Business, Management and Administration
- 4. Education and Training
- 5. Engineering
- **6.** Finance
- 7. Government and Public Administration
- **8.** Health and Bioscience
- 9. Hospitality and Tourism
- 10. Human Services
- 11. Information Technology
- 12. Law, Public Safety and Security
- 13. Manufacturing
- 14. Marketing
- **15.** Transportation

EMPLOYABILITY SKILLS: These are foundational skills essential for success in all careers; including applied knowledge (academic and critical thinking skills), effective relationships (interpersonal skills and personal qualities), and workplace skills (resource management, information and communication, systems thinking and technology). Kansas CTE has identified the U.S. Department of Education's employability skills framework as a model of employability skills.

COMPLETER: This is a student who has completed a minimum of three (3) secondary level credits in a single CTE pathway, with at least two (2) of those credits being a combination of technical and application-level courses.

A completer must also earn or complete at least one or more of the following:

- Earn an end of pathway assessment/certification for completer status (industry-recognized certification or a passing score on a third-party, end-of-pathway assessment).
- Earn an Excel in CTE qualifying recognized credential aligned to the pathway.
- Earn nine (9) + college hours leading to completion of a certificate or postsecondary program aligned to the pathway's program of study.
- Complete a high-quality work-based learning career preparation experience, Kansas work-based learning continuum, in the pathway defined in Kansas Work-Based Learning: PersonalizedLearning Plan Guidance Document (ksde.org).¹

CONCENTRATOR: This is a student who has earned two (2) or more secondary level credits in a single CTE pathway, which are a combination of at least two of the three levels: Introductory, technical and application and meets a 70% proficiency on a technical skills assessment measured by the average of the letter grades, an average percentage on end-of-course assessments, or on the competency profile.

CROSSWALK (COMMON) COURSE: A course that is approved for inclusion in more than one career cluster pathway.

COURSE COMPETENCY: Statement that describes a unit of instruction (or duty area) related to course outcomes. A competency statement contains an active verb (that is observable and measurable) and a noun (instructional area). Specified competencies are identified and validated by business and industry and supported by the local advisory committee.

CTE SCHOLAR: See Kansas CTE Scholar.

CIVIC ENGAGEMENT: The sharing of personal skills and knowledge by CTE students through actions intended to improve communities, states, nations, the world and themselves.

HIGH-DEMAND OCCUPATION: This is an occupation that has the following:

- 1. A critical shortage of workers to fill the employment demands of industry; and
- 2. Requires formal training exceeding that which can be provided on the job.

HIGH-SKILL OCCUPATION: This is an occupation that requires all the following:

- 1. Specialized technical training;
- 2. An advanced level of skill sets as defined by each industry and/or education (examples: independent decision-making, critical thinking or problem-solving);
- **3.** A recognized validation of skill attainment or credential (examples: certification, registration or licensure); and
- 4. Mandatory continuing education and/or training.

HIGH-WAGE OCCUPATION: Kansas Department of Labor's Labor Market Information Services (LMIS) has created labor market information (LMI) organized by cluster and pathway. The LMI includes high-wage information.

INDIVIDUAL PLAN OF STUDY: This is an individualized plan developed by a student (with guidance) to help guide them through the education process. It includes interest assessments to help students identify career preferences, assists with course selections based on career interests, looks at their postsecondary options and includes a portable electronic portfolio.

¹ KSDE. (2021). Kansas Work-Based Learning: Personalized Learning Plan. https://www.ksde.org/Portals/0/CSAS/CSAS%20Home/CTE%20Home/ Kansas%20Work-Based%20Learning_Personalized%20Learning%20Plan%20(updated%202-2021).pdf?ver=2022-06-22-143054-737

INTERNSHIP: This is a supervised work-based experience that links a learner with an employer for a planned set of activities designed to give the learner a broad overview of a business or occupational field (can be for a short- or long-term period).

INTRODUCTORY LEVEL COURSE: These are an introduction to a specific or multiple clusters or pathways that require similar foundation knowledge and skills taken prior to the technical and application-level courses.

KANSAS CAREER FIELD(S): These are occupations and is organized around broad, common knowledge and skills. They are recognized as Media and Technology; Business; Agriculture; Design, Production, and Repair; Health; Public Services; and Family and Consumer Sciences.

KANSAS CAREER PATHWAY(S): These are organized groupings of rigorous academic and career related courses leading from education to employment, that identify each step, skill, educational requirement, and aptitude needed to be successful within any specific career. Currently there are 32 state-approved pathways identified within the 15 clusters.

KANSAS COMMON COURSE CODE: This is an alpha-numeric code used as a standard course description for secondary education intended to help schools and education agencies maintain longitudinal information about students' coursework in an efficient, standardized format, consistent from one system to the next.

KANSAS CTE SCHOLAR: This is an outstanding career and technical education student in their senior year who has met criteria to indicate their well-rounded development.

PARTICIPANT: This is a student who has earned one, but less than two secondary level credits in a single CTE pathway.

PROFESSIONAL LEARNING EXPERIENCE (WORK-BASED EXPERIENCE): This experience is based on a learner's career interest that partners the learner with the school, community, and/or business/industry. It provides career or work opportunities above and beyond the classroom and may provide instruction in all aspects of the industry. These experiences are most commonly in application-level courses.

PROFICIENCY CREDIT: This is full or partial academic and/or CTE credit awarded to a student who has successfully demonstrated they have simultaneously met standards and expectations in more than one high school course through integrated academic and/or CTE courses.

PROGRAM(S) OF STUDY (POS): This is a plan that incorporates secondary education and postsecondary education elements; includes academic and career and technical content in a coordinated, non-duplicative progression of courses; and leads to an industry-recognized credential or certificate at the postsecondary level, or an associate or bachelor's degree. The Program of Study is a requirement for pathway approval.

TECHNICAL LEVEL COURSE: This is a course that builds on the knowledge and skills learned in the introductory level course with a focus on acquiring practical technical skills specific to the cluster/pathway.

21st CENTURY SKILLS: These are skills essential for workplace/career success including the followng: critical thinking/problem-solving skills, communication skills, creativity and innovation skills, collaboration skills, information and media literacy skills, and contextual learning skills. They are integrated into what is known as 21st Century content which is: global awareness, financial, economic, business, and entrepreneurial literacy, civic literacy, health and wellness awareness, and environmental literacy.

UNIT OF CREDIT: This is a measure of credit that may be awarded to a student for satisfactory completion of a particular course or subject. A full unit of credit generally requires 120 clock hours to complete. Credit may be awarded in increments based upon the amount of time a course or subject is offered and generally requires to complete. Individual students may be awarded credit based upon demonstrated knowledge of the content of a course or subject, regardless of the amount of time spent by the student in the course or subject. (Article 6, Section 2(a) of the Kansas Constitution.)

KANSAS CAREER GUIDANCE HANDBOOK 2025-2026

Advisory Committee Information

An Advisory Committee is a group of persons outside the education profession, comprised of representative laypeople, recognized and respected in their own fields of work who advise CTE educators, administrators, and local board of education members regarding clusters/pathways, based on the employment needs of the community, state, regional, national, and international marketplace.

ADVISORY COMMITTEE DESIGN: Each CTE cluster or pathway must establish its own industry-unique Advisory Committee. The committee can serve multiple pathways within a cluster, but the committee as a whole cannot serve multiple clusters. An individual may serve on more than one cluster advisory committee; if appropriate (i.e. a welder could serve on both the Agriculture and Manufacturing Cluster Advisory Committees).

GOALS, **OBJECTIVES AND ACTIVITIES:** The Advisory Committee members evaluate the Career and Technical Education (CTE) cluster/pathway they are serving and advise the CTE coordinator and local administration on improvement of the cluster/pathway. Suggestions for an advisory committee's input include:

- Analyze the course content.
- Assist with selecting appropriate industry credentials/certifications.
- Evaluate facilities, program equipment, teacher resources, and textbooks.
- Assist with the instructional and learning experience.
- Assist with internship and job opportunities
- Form partnerships.
- Advise on Short- and Long-range planning.
- Provide recommendations for pathway improvement.

ORGANIZATION OF AN ADVISORY COMMITTEE: Considerable attention should be given to the careful selection of members of the local Advisory Committee. The membership of a Career Cluster/Pathway Advisory Committee must include a minimum of three (3) representatives from business/industry with the optional addition of a postsecondary representative and a current student from its respective cluster/pathway. Business/Industry members need to make their living in areas related to the pathway.

- Membership of a Cluster level Advisory Committee would include a minimum of three representatives from business/industry for each pathway within the cluster.
- Ex-Officio (non-voting) members of the committee include district staff and administration representatives. District staff members are strongly encouraged to attend and participate in Advisory Committee meetings, even though they are non-voting members.

ADVISORY MEETINGS: Meetings are conducted a minimum of twice each school year with a focus on evaluating the current pathway(s). Annual discussion should include an evaluation of why the program exists. Review of labor market data, student interest and participation.

CTE Course Competencies and Indicators¹

PATHWAY IMPROVEMENT PLAN: A written Pathway Improvement Plan is required for each approved pathway and is to be kept on file locally and updated annually. A plan that shows growth across a three-year period is required and should be written in S.M.A.R.T. Goal format. Topics should include goals for:

- Teacher Professional Development
- Physical Environment (Updating equipment and facilities)
- Instructional Strategies (Updating teacher resources, course additions, deletions, etc.)
- Partnerships (With parents, community, business/industry, and postsecondary institutions)
- Other

The Plan should be developed and approved by the Advisory Committee members and should be presented to the local Board of Education annually.

REGIONAL ADVISORY COMMITTEES: A Regional Advisory Committee is one that represents multiple schools/districts that have the same state approved pathway. Some guidelines for Regional Advisory Committees are as follows:

- Include business members that represent all communities included on the committee
- Include postsecondary members that represent all programs covered within the pathway
- Each meeting needs to speak to each school's specific pathway successes, concerns, improvements, etc.
- Need to develop Improvement Plans for each specific school represented
- Each school needs meeting minutes specific to their school that are kept on file locally.

For More Information on Advisory Committees: please consult the complete Advisory Committee Handbook, 2020¹.

¹ https://www.ksde.org/Portals/0/CSAS/CSAS%20Home/CTE%20Home/Business_Industry/2020%20Advisory%20 Committee%20Guidance%20Handbook.pdf?ver=2020-09-15-104407-093

KANSAS CAREER GUIDANCE HANDBOOK 2025-2026

Pathway Crossover Course Information

Several of our Pathway courses are utilized in more than one Pathway. The following pages contain a chart that shows which courses are in multiple Pathways.

Alphabetical by Course Title

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Course Title	Number	Agricultural Technology & Mechanical Systems 01.0201	Animal Science, Health & Related Industries 01.0901	Diversified Agricultural Science 01.0000	Food Products & Processing Systems 01.0401	Natural Resources & Environmental Sustainability 03.0101	Plant Science & Industry Operations 01.1101	Business Management & Entrepreneurship 52.0799	Business Finance 52.0801	Marketing 52.1402	Construction & Design 46.0000	Automation Engineering 15.0406	Aviation Production 15.0000	Energy 14.4801	Engineering & Applied Matnematics 14.0101	Manufacturing 46.0000	Machille Facility and Machine A7 0000	Mobile Equipment Mannenant 12 0504	Travel & Tourism 52.0901	Early Childhood Development & Services 19.0709	Family, Community & Consumer Services 19.0799	Fashion, Apparel, Interior Design(FAID) 19.0999	Biotechnology 26.1201	Health Science 51.3901	Media Design & Communications 11.0801	Information Support & Services 11.0301	Networking & Telecommunications 11.0901	Programming & Software Development 11.0201	Government & Public Administration 44 0401	Government & Fubility Law Enforcement Services 43 0199	Emergency & Fire Management Services 43.0299
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Culinary Arts II	16055																	×													
Culinary Essentials	16052						2	x									T	×	x		x										
Culinary Workplace Experience	16098																	×													
Cybersecurity I	10020											x														x		x			
Cybersecurity II	10900																									x		x			
Data System/Processing	10054																											x			
Database Applications	10053																											x			
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Diesel Engine Technology	40218)	(
Digital Electronics	21008											x		2	x z	()	(x				
Digital Marketing	35162						2	x		x																					
Digital Media Technology	30104																								х						
Drafting/Architecture I	21103									- 1	x				\perp							X									
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Drafting/Print Reading	21102						1		1	-	x				1		1					x					\perp				
Drawing for Designers	30006			\perp	4	1		4			\perp		_	1	1	1	1								X	\perp				\perp	
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Electrical Technology	17113			\perp	4	1	1	4	1	_	x	\perp	4	4	'	K	1									4	_		4	\perp	
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Emerging Technologies	21053				4			4	4		4		4	_ 2	X	1	1						х			4	_	_	4	4	
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Energy Industry Fundamentals	41105						+		+		4		\rightarrow	X	+	-	+								\dashv	4	4	_		4	
Energy, Power & Society	41150			4	4	+	+	+	+	4	4	4	-	X	+	+	\downarrow	+	+	+	-				\dashv	4	\perp	+	+	+	\blacksquare
Engine Mechanical Repair	40216		4		1	+	1	-	1	1	1	-	+	+	+	+)	_	+	-						+	4			+	
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Engineering Design	21006		-	-	+	+	1		+	+		X	+	+	X	+	+		+						\dashv	+	-	+	+	+	+
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Entrepreneurship	12053		-	+	+	_	1	X 2	^	^	+	+	+	+	+	+	+	()	X	-					\dashv	+	+			+	+
Environmental Resources & Ecology	37506					X																									

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Event Planning & Management	34052										T							x	х													
FAID Merchandising & Entrepreneurship	30112																					x										
FAID Studio	30160																					x										
Family Studies	19255																			x	х							х				
Fashion Trends	30111																					x										
Fire Science I	44100																														x	
Fire Science II	44101																														x	
Fire Service Special Operations	44080																														x	
Flight Training	40540															х																
Food Science	19254				х										Τ			x					x	T						П		
Forensic Science I	44225																													x		
Forensic Science II	44226																													x		
Foundations in Law	44305																												x	x		
Foundations of Early Childhood Development	19052							x												X												
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General Carpentry I	17002							x			x																					
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GIS Spatial Applications	21112)	(
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Governance Applications	43250																												X			
Government & Public Administration Fundamentals	43105																												X			
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Graphic Design I	30102									x														_	x							
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Graphic Design Workplace Experience	10248																							2	x							
Hand & Power Tools	40400											x	X		X	X																

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Course Title	Number	Agricultural Technology & Mechanical Systems 01.0201	Animal Science, Health & Related Industries 01.0901	Diversified Agricultural Science 01.0000	Food Products & Processing Systems 01.0401	Natural Resources & Environmental Sustainability 03.0101	Plant Science & Industry Operations 01.1101	Business Management & Entrepreneurship 52.0799	Business Finance 52.0801	Marketing 52.1402	Construction & Design 46.0000	Automation Engineering 15.0406	Aviation Production 15.0000	Energy 14.4801	Engineering & Applied Matnematics 14.0101	Mallulacturing 46.0000	Mobile Eminment Maintenance 47.0000	Restairant & Event Management 12 0504	Travel & Tourism 52.0901	Early Childhood Development & Services 19.0709	Family, Community & Consumer Services 19.0799	Fashion, Apparel, Interior Design(FAID) 19.0999	Biotechnology 26.1201	Health Science 51.3901	Media Design & Communications 11.0801	Information Support & Services 11.0301	Networking & Telecommunications 11.0901 Programming & Software Develonment 11.0201	Teaching/Training 13.0101	Government & Public Administration 44.0401	Corrections, Security, Law & Law Enforcement Services 43.0199	Emergency & Fire Management Services 43.0299
Hazardous Materials for the First Responder	44070																													x	x
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Home Health Aide	36053													1	T	T	T							х	T	T				П	
Horticulture	18052			х	х	\exists	х		T		T	1	T	\top	T	T	T		T		T				T	T	T	T		П	
Horticulture, Floriculture & Greenhouse Management	18057					T	х				1			1	T	T	T								T	T				П	
Hospitality & Lodging Management	16148													T	T	T	\top		х						1					П	
Human Body Systems	14102													T	T	T							х	х						П	
Human Growth & Development – Early Years	45004														T	T	\top			х	х							x		П	
HVAC Technology	17056										х		7	x	7	(П	
Hydraulics & Pneumatics	39302											х	7	x	7	()	(П	
IB Business & Management	12059							х		х	1						T													П	
IB Computing	10159																										х			П	
Industrial Maintenance Systems	13303											х																		П	
Information Support & Services I	10052																									x					
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Integrated Marketing Applications	12195									x																					
Interactive Media	10203																								x					П	
Interior Architectural Design	38212										х																				
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Introduction to Agriculture	18001	x	х	х	х	x	х																							П	
Introduction to Computer Coding	31001											x															Х				
Introduction to Drawing	30005																					x									
Introduction to Education	19199														\perp	\perp				x								x			
Introduction to Emergency Medical Services (EMS)	44005																														X
Introduction to Energy	41100													x	\perp	\perp															
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Introduction to Environmental Science	41207												2	x	\perp	\perp														Ш	
Introduction to Family & Consumer Sciences	19251																	X	x	X	X	X						x	\vdash		
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Journalism & Media Communications	30100		+	\dashv										+	+	+	+		+	+	+	+			х	\forall	\forall	+	Ŧ	+	
Law Enforcement I	44200		+	\dashv										+	+	+	+		+	+	+	+				\forall	Н	+	+	+	x
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Leadership Service in Action	19257		7												1	+	+		+	١,	χ					Н	\vdash	+	+	+	
Legal Proceedings	44310		+											1	+	†	\dagger		†	$^{+}$	$^{+}$	†			Н	Н	П	Ħ	١,	x z	x
Lifespan Development	45014			1										1	+	$^{+}$	+		$^{+}$	$^{+}$	×	+			Н	Н	Н	1	\rightarrow	x	
Machine Tool Technology	13203			\dashv										\top		x	1		$^{+}$	$^{+}$	$^{+}$	$^{+}$				Н		\top	†	†	
Marketing Applications	35300		1							х				+	†	$^{+}$	\dagger		†	†	$^{+}$	†			Н	П		1	\dagger	†	
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Marketing Management	12166						П	П		х				1	\top	\dagger	+		T	Ť	Ť	T	T			П	П	T	Ť	\dagger	
Marketing Research	12196									х				1	\top	\dagger	T		T	†	†	T				П			\dagger	\dagger	
Marketing – Workplace Experience	12198									х				1	\top	\top	T		†	Ť	T	T				П			T	\top	
Materials Science in Engineering	41355											х		х	x	1	T			T	T					П			T	1	
Mechanical/Electrical/Plumbing (MEP) I	17062										х				1	1	T			T	T					П		T		T	
Mechanical Power Transmission Systems	13302											х		х		x z	x			Ť	T					П	П	T	T	T	
Media & Public Relations	43115													T	T	\top	1		T	Ť	T	T			х	П		1	T	T	
Media Design & Production	30151																			Ť	T				х	П	П		T	T	
Medical Imaging	14103													7	T	\top	T		T	T	T	T		х		П	П		T	T	
Medical Interventions	14105																T			T	T		х	х		П			T	1	
Medical Terminology	14154																T			T	T			х		П			T	1	х
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Mobile HVAC	40228														T	1	2	x		T	T	T				П			T	T	
Natural Resource Management	18504			х		х																				П					
Network Systems I	10112																										х				
Network Systems II	10147																										х				
Nursery & Landscape Operations	18067						X													I											
Nutrition & Wellness	19253																	2	()	(х			X							
Orientation to Early Childhood Development	19051)	(
Particular Topics in Computer Programming	10160																											X			
Particular Topics in Engineering	21015														x								X								
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Photo Imaging	30105																								x						

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Principles of Illustration	30101															-	\dashv							^		х	\dashv	\dashv	+	+	+	+	+
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Production Methods II	39052				H	+	+							1	\rightarrow	x	^										\dashv		+	+	+	+	+
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Production Print Reading II	39108				H	+	+				<u> </u>			1	\rightarrow	x										\exists	\dashv		+	+	+	+	+
Project Management	41350						+								х	_	1										\dashv		+	+	+	+	+
Relationships & Personal Development	19260				H	\vdash	\vdash									1						х					\forall		+	+	+	+	1
Remodeling & Building Maintenance	17009						T	x			х					х											\forall			$^{+}$	+	+	1
Research & Design for Preconstruction	21109				T	t	t				х																\exists		T	T	\dagger	\dagger	
Research & Design in Building Trades	17005		T				T				х					1											\top		T	T	\top	\top	
Research in Agriculture	18206	х	х	х	х	X	x																				T				T	T	
Risk Management & Insurance	12106			Т			T		х																		T		T	T	\top	\top	
Robotics I	21009											х			х	х								х			T		T				
Robotics II	38009											х															T			T	\top		
Sheet Metal Technology	13205										x					х																	
Small Animal Care	18102		X	X																													
Small Engine & Powertrains I	40212																	X															
Small Engines & Powertrains II	40214																	X															
Small Power Systems	18410	x		x	L	L	L																							1	4	1	
Special Projects & Research in Aviation	41520												х																	1			
Sports/Entertainment Marketing	12163				L	L	L			X																			\perp	4	\perp	\perp	
Sports Medicine I	14072																								X					4		Ц	
Sports Medicine II	14073																								X					4	1	4	
Steering & Suspension I	40224																	X											4	1	1	4	
Steering & Suspension II	40226					L												X												4	4	4	
Sustainable/Alternative Agriculture	18310			X		X																								1	4	1	
Teaching as a Career	19151					-								4													4		_	X	4	4	
Teaching Internship	19152																													Χ			

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		1201	_			Natural Resources & Environmental Sustainability 03.0101																								3	69
		Agricultural Technology & Mechanical Systems 01.0201	Animal Science, Health & Related Industries 01.0901			ilit		Business Management & Entrepreneurship 52.0799												902		66						5		3	1 261
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		& Me	& Rela	Diversified Agricultural Science 01.0000	Food Products & Processing Systems 01.0401	ironn	Plant Science & Industry Operations 01.1101	Ē	_		Construction & Design 46.0000	Automation Engineering 15.0406	8		Engineering & Applied Mathematics 14.0101	000	Aviation Maintenance 47.0008	tenar	restaurant & Event Management 12.0504	_	Camily Community & Continuor Services 19:0700	Fashion Apparel: Interior Design(FAID) 19.0999			Media Design & Communications 11.0801	Information Support & Services 11.0301	Networking & Telecommunications 11.0901	Programming & Software Development 11.0201	5 3	Government & Public Administration 44.0401	Corrections, Security, Law & Law Enforcement Se Emergency & Fire Management Services 43.0299
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		echno	e, He	ricul	s & Pr	rces	& Ind	agem	Business Finance 52.0801	Marketing 52.1402	& Des	ngine	Aviation Production 15.0000	= :	A P	Manuracturing 48.0000	tena	men.	Even	Farly Childhood Develops		le le	Biotechnology 26.1201	Health Science 51.3901	S Co	oddn	E E	& So	Teaching/ Iraining 13.0101	an la	Fire
		ural T	cienc	ed Ag	duct	Resou	ence	Man	Fina	ng 52	tion	ig.	Prod	Energy 14.4801	. ng g		Ma	dinb	שון ש ב			Apple	golor	cienc	esign	tion S	cing 8	mim	i lra	Jen S	CV &
		icult	mal	ersifi	d Pro	tural	nt Sci	ines	ines	rketi	stru	toma	ation	gy.	inee	nura Si si	at 3	9	rank	8 E	3	, ie	tech	alth S	diaD	orma	twor	gram		/ernn	Pect
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Teaching Observation	42251)	(x		
Technical Introduction to Computer Science	41010												\perp							\perp								х	\perp		
Technology for Teachers	19155																											2	x		
Telecommunications	10106												\perp							\perp							x		\perp		
Telecom Workplace Experience	11048																										x				
Unmanned Aircraft Systems (UAS)	40490)	K														
Web & Design Workplace Experience	31096																								x						
Web Design	10201							x		x															x			х			
Welding Processes I	39207	X		x				x				x			2	K															
Welding Processes II	39208	X											\perp			K				\perp									\perp		
Wildlife & Recreation Management	18501					x																									
Wind Energy Operations	41160													x			1		1	\perp											
Woodworking Principles	17007										x																				
Work-based Learning in Information Support & Services	10098																1		1							х					
Work-based Learning in Programming & Software Development	10198																\perp		1							х		X			
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Work Experience in Aviation — Comprehensive	40701			Ш				\perp		\perp		\perp	\perp	4	_)	(1	\perp			L						\perp	1	\perp
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Work Experience in Manufacturing – Comprehensive	13998														2	K	1		1	1									1	1	
Work Experience in Transportation	40250			Ш				\perp		\perp		\perp	\perp	4	_	\perp	2	X	1	\perp			L						\perp	1	\perp
Work Experience in Transportation – Comprehensive	40251																1	X	1												
Workplace Experience in Architecture & Construction	38100			Ш				\perp		\perp	Х	\perp	\perp	4	_	\perp	1		1	1			L						\perp	1	\perp
Workplace Experience in Architecture & Construction - Comprehensive	38110										x																				
Workplace Experience in Energy	41250													x						Τ										Τ	
Workplace Experience in Energy – Comprehensive	41260								J					х		I	I		I	I	I										
Workplace Experience in Engineering	41048											x	x		x																
Workplace Experience in Engineering – Comprehensive	21048								J			X	х		x	I	I	I	I	I	I										
Workplace Experience in Finance	12148							х																							
Workplace Experience in Finance - Advanced	33200							х									T		T												

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Number	Course Title	Agricultural Technology & Mechanical Systems 01.0201	Animal Science, Health & Related Industries 01.0901	Diversified Agricultural Science 01.0000	Food Products & Processing Systems 01.0401	Natural Resources & Environmental Sustainability 03.0101		Entrepreneurship 52.0799	2.0801	Marketing 52.1402	Construction & Design 46.0000	Automation Engineering 15.0406	Aviation Production 15.0000	Energy 14.4001 Engineering & Applied Mathematics 14.0101	Manufacturing 48.0000	Aviation Maintenance 47.0608	Mobile Equipment Maintenance 47.9999	Restaurant & Event Management 12.0504	Travel & Tourism 52.0901	Early Childhood Development & Services 19.0709	Family, Community & Consumer Services 19.0799	Fashion, Apparel, Interior Design(FAID) 19.0999	Biotechnology 26.1201	Health Science 51.3901	Media Design & Communications 11.0801	inioriniation support & services 11.0501	Networking & Telecommunications 11.0901	Programming & Software Development 11.0201 Tearhing/Training 13, 0101	nistration 44.0401	Corrections, Security, Law & Law Enforcement Services 43.0199	Emergency & Fire Management Services 43.0299
03006	Meteorology												,	(Т	T			П		П
03053	Anatomy & Physiology																						x x	K							
03101	Chemistry																						x x	K							
03203	Applied Biochemistry																					:	x								
03207	AP Environmental Science)	(
04990	Government & Public Media Relations																												х		
05162	Graphic Design II																								x						
05254	Introduction to Web & Digital Media																								x						
10001	Foundations of Information Technology																								_	()	x				
10002	Computing Systems (Grade 9)					4								┸									X)	()	X	X	L		
10004	Computer Applications (Grade 9)																						X	_ 2	x >	()	X	X	L		
10006/60006	IoT Internet of Things					4								┸											1	2	x		L		
10020	Cybersecurity I											X)	(-	X	L		
10052	Information Support & Services I																					Ц)	(L		
10053	Database Applications							_		4					_							4			4	1	\rightarrow	Х	1	L	Ш
10054	Data System/Processing					4	4	4						_	-							4			\perp	1	-	X	4	4	
10097	Information Support & Services II					4		4		4					_							4)	+			1	L	Ш
10098	Work-based Learning in Information Support & Services					4	4	4							-							4)	+			4	4	
10106	Telecommunications						4								1							4		4	4	+	X		L	4	
10112	Network Systems I					4	4	4		4			4	\perp	-				4	4	4	4	4	4	\bot	+	X		4		
10147	Network Systems II					4	_	_	_	4		_	_	+	-						_	4	4	4	4		X	4	4	1	Ш
10152	Computer Programming						4					Х										4	4	2	X	+	\dashv	X	4		
10156	Computer Programming – Other Languages					4	_							+	-							4	4	4	4	+	+	X	H		\blacksquare
10157	AP Computer Science A					4		4		4				-	-							4	4	4	4	-	\dashv	X	╄	-	Н
10159	IB Computing					\dashv	4	4	4	\dashv	_	4	+	+	+				4	4	+	4	+	4	+	+	\rightarrow	X	+	-	
10160	Particular Topics in Computer Programming					4	4	-		\dashv				+	-				-	-	-	4	+	+	+	+	-	X	+		\blacksquare
10165	Applied Game Design					-	+							+	-							4	+	4	X	_			H		\vdash
10198	Work-based Learning in Programming & Software Development					4	4	v		v				-	-						-	+	+	+) V	(-	x x	₽	-	Н
10201	Web Design		_			+	\dashv	X	\rightarrow	X	+	\dashv	+	+	+	H			\dashv	\dashv	+	+	+	-	X	+	+	X	+		\vdash
10202	2D Animation							X		Х													+	_	x x	-	1				
10203	Interactive Media						-	-														1	+	+	x x	+	1		+		
10210	3D Animation Graphic Design Workplace Experience							-	-												-	+	+	+	x x	+	+		+	+	
10248	Cybersecurity II					-	+	-	-	-	+	\dashv	+		+				-	-	+	+	+	+	x)	,	-	x	+		
11048	Telecom Workplace Experience						-															1		+	+	+	X	^	+		
11048	Applied Telecommunications						-															+	+	+	+	+	^ x		+		
12009	Business Communications							¥	x	Y												ł	+	+	+	-	^			x	
12003	Pasiness communications							^	^	^															\perp					_^	

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Number	Course Title	Agricultural Technology & Mechanical Systems 01.0201	Animal Science, Health & Related Industries 01.0901	Diversified Agricultural Science 01.0000	Food Products & Processing Systems 01.0401	Natural Resources & Environmental Sustainability 03.0101	Plant Science & Industry Operations 01.1101	Business Management & Entrepreneurship 52.0799	Business Finance 52.0801	Marketing 52.1402	Construction & Design 46.0000	Automation Engineering 15.0406	Aviation Production 15.0000	Energy 14.4801 Engineering & Annlied Mathematics 14 0101	Manufacturing 48.0000	Aviation Maintenance 47.0608	Mobile Equipment Maintenance 47.9999	Restaurant & Event Management 12.0504	Travel & Tourism 52.0901	Early Childhood Development & Services 19.0709	Family, Community & Consumer Services 19.0799	Fashion, Apparel, Interior Design(FAID) 19.0999	Biotechnology 26.1201	Health Science 51.3901	Media Design & Communications 11.0801	Networking & Telecommunications 11,0901	Programming & Software Development 11.0201	Teaching/Training 13.0101	Government & Public Administration 44.0401	Corrections, Security, Law & Law Enforcement Services 43.0199	Emergency & Fire Management Services 43.0299
12050	Business Essentials							х	х	x							х	х	x												
12052	Business Management							X		x																			x	x	
12053	Entrepreneurship							x	х	х							х	х	х												
12054	Business Law							X	X																				x	x	
12059	IB Business & Management							x		х																					П
12098	Business Management & Entrepreneurship Workplace Experience							X																							
12101	Banking & Finance								х																						
12104	Accounting							x	х	x																			х	х	
12105	Business Economics							х	х	х																			х	х	
12106	Risk Management & Insurance								X																						П
12107	Investing								х																		П	П			П
12148	Workplace Experience in Finance							x																							
12163	Sports/Entertainment Marketing									х														T	П						
12164	Principles of Marketing							X		X								X	X												
12165	Principles of Advertising									x																					
12166	Marketing Management									x																					
12195	Integrated Marketing Applications									x																					
12196	Marketing Research									x																					
12198	Marketing – Workplace Experience									x																					
12199	Advanced Marketing Workplace Experience									X																					
13001	Introduction to Manufacturing											x																			
13052	Production Methods I												X		х	X															
13203	Machine Tool Technology														х																
13204	Computer-Aided Machining (CAM) I							X							X																
13205	Sheet Metal Technology										x				х																
13207	Introduction to Welding														X																
13302	Mechanical Power Transmission Systems											X	2	x	Х	X															
13303	Industrial Maintenance Systems											X																			
13348	Work Experience in Manufacturing														X																
13998	Work Experience in Manufacturing – Comprehensive														X									4	1		L				
14000	Introduction to Health Care																						2	x							
14055	Fundamentals of Emergency Services																						2	x	4						
14060	Foundations of Rehab																						2	x							
14062	Care of Athletes																						2	x	1						
14072	Sports Medicine I																						+	x	1						
14073	Sports Medicine II																						-	x	1						
14102	Human Body Systems																					2	x 2	_	1						
14103	Medical Imaging																						2	X							

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Number	Course Title	Agricultural Technology & Mechanical Systems 01.0201	Animal Science, Health & Related Industries 01.0901	Diversified Agricultural Science 01.0000	Food Products & Processing Systems 01.0401	Natural Resources & Environmental Sustainability 03.0101	Plant Science & Industry Operations 01.1101	Business Management & Entrepreneurship 52.0799	Business Finance 52.0801	Marketing 52.1402	Construction & Design 46.0000	Automation Engineering 15.0406	Aviation Production 15.0000	Energy 14.4801	Engineering & Applied Mathematics 14.0101	Manufacturing 48.0000	Aviation Maintenance 47.0608	Mobile Equipment Maintenance 47.9999	Restaurant & Event Management 12.0504	Iravel & Iourism 52.0901	Early Children Development & Services 19.0/09	Earlion Annarol Interior Design(EAID) 40 0000	Riotechnology 26 1201	Health Science 51.3901	Media Design & Communications 11.0801	Information Support & Services 11.0301	Networking & Telecommunications 11.0901	Programming & Software Development 11.0201	Teaching/Training 13.0101	Government & Public Administration 44.0401	Corrections, Security, Law & Law Enforcement Services 43.0199	Emergency & Fire Management Services 43.0299
14104	Principles of Phlebotomy																						T	х	Т	Г	Г	П		T	T	
14105	Medical Interventions																						х	x	Г		Г	П		T	П	
14154	Medical Terminology																							х								X
14202	Certified Patient Care Technician																							х								
14251	Principles of Biomedical Science																						х	:								
14253	Pharmacology																						х	X								
14254	Health Care Essentials I																							х	L	L	L					
14255	Biomedical Innovation																						х	_								
14997	Certified Nursing Assistant													1	4					1	1		L	Х	L						Ц	
14998	Bioscience Workplace Experience																						Х	1	L		L				4	
16052	Culinary Essentials							Х					4	4	_	4	4	\rightarrow	\rightarrow	X)	١	4	1	L						4	
16053	Culinary Arts I																	-	Х		-		4	4						4	4	
16055	Culinary Arts II									_		_	4	4		4	4	-	X		+		+	\bot				\sqcup		\downarrow	\perp	
16056	Baking & Pastryl												4					-	X		+		4	+	-					4	4	
16057	Baking & Pastry II					_				\dashv		\dashv	+	+	_	+	+	\rightarrow	X	_	+	-	+	+	+		H	Н	4	+	\dashv	
16098	Culinary Workplace Experience									-	_		4	+	+	+	+	+	X		+	+	₽	╄	-			H		+	4	
16101	Foundations of Hospitality & Lodging					_		\dashv		\dashv		\dashv	+	+	+	+	+	+	\rightarrow	X	+	+	+	+	H			\vdash	-	+	\dashv	
16148 16151	Hospitality & Lodging Management Foundations of Travel & Tourism												4	+	+	+	+	\dashv	x :	X	+	+	+	+	\vdash			Н	\dashv	+	\dashv	
17002	General Carpentry I							х		\dashv	x	+	+	+	+	+	+	+	^	^	+		+	+	H			Н	\dashv	+	+	
17002	Research & Design in Building Trades							^		-	x		+	+	+	+	+	\dashv	+	+	+	+	+	+	H			Н	\dashv	+	+	
17007	Woodworking Principles									\rightarrow	x	+	+	+	+	+	+	+	+	+	+		H	+	H			Н	+	+	+	
17009	Remodeling & Building Maintenance							х		\rightarrow	X		+	+	+	x	+	+		+	t	+	H	H	٢			Н	H	+	H	
17056	HVAC Technology							-		-	x	\dashv	+	x	+	x	+	+	+		+		H	t	H		H	Н	\dashv	+	\forall	
17058	Plumbing Technology									\rightarrow	X			+	-	X	1	+										Н		+	H	
17062	Mechanical/Electrical/Plumbing (MEP) I									\rightarrow	х		1	1		1	1	1			\dagger		T	T							T	
17101	Fundamentals of Electrical Theory											х	1	1	1					1	Ť		t	T	T	Т	T	П	П	T	T	
17113	Electrical Technology										х		1	1		x	1	1			\dagger		T	T	Т	Т	Т	П		T	T	
18001	Introduction to Agriculture	х	х	х	х	х	х						T		T					T	T		T	T	Т	Г	Г	П		T	T	
18002	Agriscience	х	X	х	х	х	х	х						1		1	1								T					T		
18003	Capstone in Agriculture			х																				T				П		T		
18048	Agricultural Internship	x	X	X	X	X	X																									
18049	Advanced Agricultural Internship	x			X	х	X													1	I				Γ							
18052	Horticulture			X	X		X													I	I											
18057	Horticulture, Floriculture & Greenhouse Management						X																									
18058	Plant & Soil Science			X	X		X																х	1								
18067	Nursery & Landscape Operations						X																1									
18081	Crop & Range Management						X																									

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Number	Course Title	01		Diversified Agricultural Science 01.0000	Food Products & Processing Systems 01.0401	Natural Resources & Environmental Sustainability 03.0101		Entrepreneurship 52.0799	2.0801	Construction & Design 46.0000	Automation Engineering 15.0406	Aviation Production 15.0000	Energy 14.4801	Engineering & Applied Mathematics 14.0101	Manufacturing 48.0000	Aviation Maintenance 47.0608	Restaurant & Event Management 12.0504		Early Childhood Development & Services 19.0709	Family, Community & Consumer Services 19.0799	rior Design(FAID) 19.0999	Biotechnology 26.1201		1		Networking & Telecommunications 11.0901	Development 11.0201	leaching Iraining 13.0101	Government & Public Administration 44.0401	Corrections, Security, Law & Law Enforcement Services 43.0199	Emergency & Fire Management Services 43.0299
18101	Animal Science		х	x	х																				T			T		T	
18102	Small Animal Care		х	х																						T		T		T	
18103	Advanced Animal Science		х																												
18104	Equine Science		X	х																										T	
18105	Animal Health		х																										1		
18201	Agribusiness Management	х	X	X	х	х	X																								
18202	Agricultural Entrepreneurship	х	х	х	х	х	х																								
18203	Agricultural Leadership & Communications	х	х	х	х	х	х																			T		T		T	
18206	Research in Agriculture	х	х	х	х	х	х																			T		Ť		T	
18301	Plant & Animal Science		х	х			х																			T		T		T	
18302	Advanced Plant & Animal Science		х	х			х																								
18305	Agricultural Food Science		х	х	х																										
18308	Agricultural Biotechnology		x	х																											
18310	Sustainable/Alternative Agriculture			х		х																									
18317	Advanced Food Science				х																										
18320	Applied Biotechnology																					x									
18401	Agricultural Mechanics	x		х																											
18402	Advanced Agricultural Mechanics	x																													
18403	Agricultural Construction	X		x																											
18404	Agricultural Welding I	x		x				x							x																
18407	Agricultural Welding II	X													x																
18409	Agricultural Fabrication	x		x																											
18410	Small Power Systems	X		x																											
18411	Advanced Agricultural Power	X																													
18415	Agricultural Engineering & Technology	X		x																											
18501	Wildlife & Recreation Management					X																									
18504	Natural Resource Management			x		X																								Ц	
19051	Orientation to Early Childhood Development																		X												
19052	Foundations of Early Childhood Development							X											X												
19098	Early Childhood Applications																		X						Ц			4		Ц	
19151	Teaching as a Career																										_	X		1	
19152	Teaching Internship																										_	X		1	
19154	Coaching & Leadership																								\perp		_	X		4	
19155	Technology for Teachers																										_	X	1	4	
19198	Educational Leadership																								4	4	_	X		4	
19199	Introduction to Education																		X)	X	1	4	
19201	Apparel Production I																				X				4	\perp	1	1	1	1	
19203	Apparel Production II																				X										

			#				1	1		Ţ.	Q							<u>.</u>				d	1	- K	l		Q	<u>*</u>		
Number	Course Title	Agricultural Technology & Mechanical Systems 01.0201	Animal Science, Health & Related Industries 01.0901	Diversified Agricultural Science 01.0000	Food Products & Processing Systems 01.0401	Natural Resources & Environmental Sustainability 03.0101	Plant Science & Industry Operations 01.1101	Business Management & Entrepreneurship 52.0799	Business Finance 52.0801	Marketing 52.1402 Construction & Design 46.0000	Automation Engineering 15.0406	Aviation Production 15.0000	Energy 14.4801	Engineering & Applied Mathematics 14.0101	Manufacturing 48.0000	AVIation Maintenance 47.0608	Mobile Equipment Maintenance 47.3939	Travel & Tourism 52.0901	Early Childhood Development & Services 19.0709	Family, Community & Consumer Services 19.0799	Fashion, Apparel, Interior Design(FAID) 19.0999	Biotechnology 26.1201	Health Science 51.3901	Media Design & Communications 11.0801	Information Support & Services 11.0301	Networking & Telecommunications 11.0901	Programming & Software Development 11.0201 Teaching/Training 13.0101	Government & Public Administration 44.0401	Corrections, Security, Law & Law Enforcement Services 43.0199	Emergency & Fire Management Services 43.0299
19251	Introduction to Family & Consumer Sciences															T	×	x	х	х	х						х		П	
19253	Nutrition & Wellness															T	×	x		х			х					T	T	
19254	Food Science				х												×					х						T		
19255	Family Studies					T		T	T		T			T		Ī		T	х	х				T		T	х		Т	
19257	Leadership Service in Action																		х	х								T		
19258	Career & Life Planning																×	x	х	х	х						×	x		
19260	Relationships & Personal Development																			х								T		
19263	Interior Design I					T		T	T	х				T		T		T	T		х					T		T	Т	
19297	Community Connections																×	x	х	х			П				T	T	T	
19298	Career Connections					T		T	T		T			T		T	×	x	х	х	х					T	T	х	T	
21006	Engineering Design										х			х									П				T	T	T	
21007	Engineering Design & Development					T	1	x	Ť					х		T		T	T				П						T	
21008	Digital Electronics										х			x	x z	K										x		T		
21009	Robotics I					T		T	Ť		х			х	x			T	T			х		T		T		T	Т	
21010	Computer Integrated Manufacturing										х			х														T	T	
21012	Civi lEngineering & Architecture					T		T	Ť		T			х				T	T							T		T	Т	
21013	Aerospace Engineering													х														T	T	
21014	Biotechnology Essentials						T	1								T		T	T			х			T	T		Т	П	
21015	Particular Topics in Engineering													х								х								
21048	Workplace Experience in Engineering – Comprehensive					T			Ť		х	х		х		Ť		T	T				П					T	T	
21053	Emerging Technologies													х								х						T	T	
21058	GIS Technology					T			Ť							İ		T	T				П		1	x		T	T	
21102	Drafting/Print Reading									х						1					х									
21103	Drafting/Architecture I								Ť	х								T	T		х		П					T	T	
21107	Drafting/CAD					T	1	х		х		х		X	x			T	T									T	Т	
21108	Production Print Reading I									х	x	х		x	x z	ĸ													П	
21109	Research & Design for Preconstruction									х								T										T	T	
21112	GIS Spatial Applications																								1	x		T	П	
21150	Advanced Drafting/CAD														x													T	T	
21201	Foundations of Electronics										х		х	x	x z	ĸ												T		
21203	Architectural Design I					T		T	T	х				T				T	T					T		T		T	Т	
22212	Interior Design II									х											х							T		
30005	Introduction to Drawing																				х									
30006	Drawing for Designers																							х						
30100	Journalism & Media Communications																							х						
30101	Principles of Illustration																							х						
30102	Graphic Design I)	(х						
30103	Audio/Video Production I																							х						
30104	Digital Media Technology																							x						

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Number	Course Title	Agricultural Technology & Mechanical Systems 01.0201	Animal Science, Health & Related Industries 01.0901	Diversified Agricultural Science 01.0000	Food Products & Processing Systems 01.0401	Natural Resources & Environmental Sustainability 03.0101	Plant Science & Industry Operations 01.1101	Business Management & Entrepreneurship 52.0799	Business Finance 52.0801	Marketing 52.1402	Construction & Design 46.0000	Automation Engineering 15.0406	Aviation Production 15.0000	Energy 14,4801 Freineering & Annlied Mathematics 14,0101	Manufacturing 48.000	Aviation Maintenance 47.0608	Mobile Equipment Maintenance 47.999	Restaurant & Event Management 12.0504	Travel & Tourism 52.0901	Early Childhood Development & Services 19.0709	Family, Community & Consumer Services 19.0799	Fashion, Apparel, Interior Design(FAID) 19.0999	Biotechnology 26.1201	Health Science 51.3901	Media Design & Communications 11.0801	Information Support & Services 11.0301	Networking & Telecommunications 11.0901	Programming & Software Development 11.0201	Teaching/Training 13.0101	Government & Public Administration 44.0401	Corrections, Security, Law & Law Enforcement Services 43.0199 Emergency & Fire Management Services 43.0299	בווכופרווכ) מיוי היייייי פליוויכיייי בניייייי בייייייי
30105	Photo Imaging																								X				_	4	4	
30110	Essentials of FAID																					X							4	4	4	
30111	Fashion Trends																					X										
30112	FAID Merchandising & Entrepreneurship																					X										
30150	Audio/Video Production II																								X							
30151	Media Design & Production																								X							
30160	FAID Studio																					X										
31001	Introduction to Computer Coding											x																X				
31002	Introduction to Physical Computing											x																X				
31090	Applied Graphic Design																								x							
31091	Advanced Media Design & Production																								x							
31094	AP Computer Science Principles																											X				
31096	Web & Design Workplace Experience																								x							
32200	Applied Business Development							x										x														
32998	Advanced Business Management & Entrepreneurship Workplace Experience							x																								
33108	Advanced Accounting								x																							
33109	College Accounting								x																							
33110	Applied Business Technology Applications								x	x																						
33200	Workplace Experience in Finance - Advanced								x																							
34052	Event Planning & Management																	X	X													Ī
35162	Digital Marketing							x		x																						
35168	Marketing Communications									x																						
35300	Marketing Applications									x																						
36053	Home Health Aide																							x								
36156	Certified Medication Aide																							x								
36157	Principles of Pharmacy																							х								1
36254	Health Care Essentials II																							х								Ī
36991	EKG Technician																							x								
36992	Health Care Work Experience I																							X								
36993	Health Care Work Experience II																							х								
37506	Environmental Resources & Ecology					X																										
38001	Introduction to Skilled Trades										X	X	x		х	x	X															
38002	General Carpentry II										X																					
38009	Robotics II									J		x																				
38010	Advanced Materials & Fabrication										X				х																	
38050	Drafting/Architecture II										X																					
38100	Workplace Experience in Architecture & Construction										X																			1		

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Number	Course Title	Agricultural Technology & Mechanical Systems 01.0201	Animal Science, Health & Related Industries 01.0901	Diversified Agricultural Science 01.0000	Food Products & Processing Systems 01.0401	Natural Resources & Environmental Sustainability 03.0101	Plant Science & Industry Operations 01.1101	Business Management & Entrepreneurship 52.0799	Business Finance 52.0801	Marketing 52.1402	Construction & Design 46.0000	Automation Engineering 15.0406	Aviation Production 15.0000 Fnersy 14 4801	Engineering & Applied Mathematics 14.0101	Manufacturing 48.0000	Aviation Maintenance 47.0608	Mobile Equipment Maintenance 47.9999	Restaurant & Event Management 12.0504	Travel & Tourism 52.0901	Early Childhood Development & Services 19.0709	Family, Community & Consumer Services 19.0799	Fashion, Apparel, Interior Design(FAID) 19.0999	Biotechnology 26.1201	Health Science 51.3901	Media Design & Communications 11.0801	Information Support & Services 11.0301	Drogramming & Coffware Davelonment 11 0001	Teaching 43.0101	Government & Public Administration 44.0401	Corrections, Security, Law & Law Enforcement Services 43.0199	Emergency & Fire Management Services 43.0299
38110	Workplace Experience in Architecture & Construction - Comprehensive									,	x										1						Ī				
38212	Interior Architectural Design									1	x																		Н		H
38223	Architectural Design II									-	x	$^{+}$		+						+	+	1				+	+		Н		Н
39010	Automated Integrated Systems I								1		7	x		t	х														H		
39020	Automated Integrated Systems II										+	x		t						1	+				1	1	t			T	
39052	Production Methods II														х						Ť										
39108	Production Print Reading II										Ť	Ť		T	х						T						T		Т	Т	
39205	Computer-Aided Machining (CAM) II														х						ı								П	Г	
39207	Welding Processes I	х		х				х			7	x		T	х					T	T						T			Г	
39208	Welding Processes II	x													х																
39302	Hydraulics & Pneumatics										7	x	х		х	х															
40050	Automotive Information																х														
40100	Introduction to Transportation																x														
40150	General Service I							X									x														
40152	General Service II																x														
40154	General Service III																x														
40200	Electronics & Electrical Systems I																x														
40202	Electronics & Electrical Systems II																x														
40204	Brakes I																x														
40206	Brakes II																x														
40208	Drive Train Technology																x														
40210	Alternative Power																x													L	
40212	Small Engine & Powertrains I																x				1					4				L	
40214	Small Engines & Powertrains II																X														
40216	Engine Mechanical Repair																X				4	4		4					L		
40218	Diesel Engine Technology																X												L	L	
40220	Engine Performance I					_			4		4	4	_	╄			X			4	4	4			4	4	4		L	L	
40222	Engine Performance II																Х				4				4				1		
40224	Steering & Suspension I					4					_	_		+			Х		_	_	4			4	_	4	+	1	L	L	
40226	Steering & Suspension II								_					-			X							4		4		4	L		
40228	Mobile HVAC					_			4		4	4	_	\perp			X		_	4	4	4		4		4	+	\bot	L		
40250	Work Experience in Transportation										4	4					Х			4	4	4			4			-	1		
40251	Work Experience in Transportation – Comprehensive									-	+	+	+	+			X			1	1						+	+			
40300	Auto Collision I							Х		+	1	1		1			X			4	4				-		+				
40302	Auto Collision II								-	+	+	+		-			X			4	4	-	-		-	-					
40310	Auto Refinishing										+	+					X			1	1		-	-				+			
40312	Auto Refinishing II									+	1			+			X			1	1	-	-	-		-	+	+			
40400	Hand & Power Tools										1	X	X		X	X															

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		:01	ries 01.0901	Diversified Agricultural Science 01.0000	Food Products & Processing Systems 01.0401	Natural Resources & Environmental Sustainability 03.0101		Business Management & Entrepreneurship 52.0799			esign 46.0000	Automation Engineering 15.0406	ion 15.0000		Engineering & Applied Mathematics 14.0101	8.0000	iance 47.0608		gement 12.0504		Early Childhood Development & Services 19.0709	Family, Community & Consumer Services 19.0799	ior Design(FAID) 19.0999			1		Networking & Telecommunications 11.0901	Development 11.0201	inistration 44.0401	Corrections Security Law & Law Enforcement Services 43 0199	Emergency & Fire Management Services 43.0299
		gricultural Tech	nimal Science,	iversified Agric	ood Products &	atural Resourc	ant Science & I	usiness Manag	Business Finance 52.0801	Marketing 52.1402	Construction & Design 46.0000	utomation Engi	Aviation Production 15.0000	Energy 14.4801	ngineering & A	Manufacturing 48.0000	Aviation Maintenance 47.0608	lobile Equipme	estaurant & Evo	Travel & Tourism 52.0901	arly Childhood	amily, Commur	ashion, Appare	Biotechnology 26.1201	Health Science 51.3901	ledia Design &	oformation Sup	etworking & Te	Programming & Software	overnment & P	overmont Ser	mergency & Fir
Number	Course Title	A	4	_	Ξ.	Z	_	B	Δ.	2	ŭ	Ā	-	<u></u>	<u></u>	-	4	2	~	F	ũ	<u>ن</u> ت	Ĭ,	<u>~</u>	エ	2	=	Z (- F		, 0	, =
40410	Aviation Fundamentals		_	\dashv	4		_			_			X	4		+	X		4	_	+	4	+	\dashv	_		\dashv	\perp		+	+	+
40420	Aviation Systems				4								X	4		\rightarrow	X			_	\perp		4	_			\dashv	4		+	+	+
40450	AC Electronics			\dashv	4		_							4		+	X		4	_	+	4	4	\dashv	_		\dashv	4		+	+	+
40460	DC Electronics															\rightarrow	X	4	4	4		1	1	1			4	4		+	1	+
40490	Unmanned Aircraft Systems (UAS)															\rightarrow	X		4	4	4	4	4		4		\dashv			+	+	+
40540	Flight Training				_									_		-	X		4		_		4				\dashv	4		+	4	\perp
40600	Aviation Tooling			4									X			4			4		4	_		4			\dashv	\perp		#	+	+
40620	Aerostructures				_								X			4	_	4	4		4		4	_			\dashv	4		+	+	\perp
40640	Composites				4								X	4					_					4			4	4		+	+	#
40700	Work Experience in Aviation			_	_	4								_	4	\rightarrow	X	_	4			_		4		_	\dashv	4	_	+	+	+
40701	Work Experience in Aviation – Comprehensive				4									4		-	X							4			4	4		+	+	₩
41010	Technical Introduction to Computer Science				_	4									4	4	4	4	4		4		4	4		4	\dashv	- 2	X	+	+	\perp
41048	Workplace Experience in Engineering				4							X		\dashv	X									_			4	4		+	+	#
41100	Introduction to Energy			4	_	4							-	X	4	+		_	4			_		4		_	\dashv	4	+	+	+	+
41105	Energy Industry Fundamentals			4										X		4	4		4	4		-	4	4	4		\dashv	+		+	+	-
41150	Energy, Power & Society		\dashv	4	4	_				_				X	_	4	_	_	4	+	_	_	4	4	_	_	\dashv	4		+	+	+
41160	Wind Energy Operations			4										X		4			4	4		-	4	+	4		\dashv	_		+	+	
41170	Fundamentals of Electricity & Electronics			4	_	4							-	X	4	+		_	4			_		4		4	4	X	+	+	+	+
41207	Introduction to Environmental Science			4										X		4			4			_		4			\dashv	4		#	+	+
41250	Workplace Experience in Energy			_	_	4							-	X	4	4	4	4	4		4		4	4		4	\dashv	4		+	+	+
41260	Workplace Experience in Energy – Comprehensive			_										X		4			4			_		4			\dashv	4		+	+	+
41270	Advanced Electricity & Electronics		_	\dashv	4	4	_			_				X		+	4	4	4	+	4	4	+	\dashv	_	4	\dashv	\perp		+	+	+
41310	Introduction to Engineering			4		_						X		\rightarrow	X	4			4	4	4	_		4			\dashv	4		+	+	+
41320	Principles of Applied Engineering		_	\dashv	4	4	_			_				\rightarrow	X	+	+	_	4	+	+	4	+	\dashv	_	4	\dashv	\perp		+	+	+
41350	Project Management				4									-	X	-	4			_	4		4	4			\dashv	4		+	+	+
41355	Materials Science in Engineering			4	_	_						X	-	X	X	+	+		4		+		+	4		_	\dashv	+		+	+	+
41500	Aerospace Drawings I			\dashv	+	_							x x	4	_	+	\dashv	-	4	+	+	+	+	\dashv	_	_	\dashv	+		+	+	+
41510	Aerospace Drawings II				_	-		_							-	+	+	-	+		+		+	+		-	\dashv	+		+	+	+
41520 42251	Special Projects & Research in Aviation												X			-			1	1	x	1	1				\dashv	4	×	+	+	H
43001	Teaching Observation Introduction to Government & Public Administration			-		+								-	+	+	+	-	+	-	^	+	+		+	-	\dashv	+		X	_	+
43105	Government & Public Administration Fundamentals																-		1	1	-		+				\dashv	+		X	+	+
43105	Media & Public Relations																			1						x	\dashv	+		+	+	+
43250	Governance Applications			-	+	-								+	-				1	1	1	+	1			^	\dashv	+		x		+
44001	Introduction to Law, Public Safety, Corrections & Security (LPSCS)			+										+					1	1		+	1				\dashv	+		+	+	χX
44001	Introduction to Law, Public Salety, Corrections & Security (LPSCS) Introduction to Emergency Medical Services (EMS)																		1	1	-	+	1				\dashv	+		+	\ <u>^</u>	X
44005	IT for Service Professions																		1	1		+						+		х		_
44010	EMS First Responder			+	+	+								+	+	+		1	+	+		+	1		x	+	\dashv	+		+	×	χ
UCU+1	EMPTHRENCSPORACI																								^			_		_	^	^

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		Agricultural Technology & Mechanical Systems 01.0201	Animal Science, Health & Related Industries 01.0901	Diversified Agricultural Science 01.0000	Food Products & Processing Systems 01.0401	Natural Resources & Environmental Sustainability 03.0101	Plant Science & Industry Operations 01.1101	Business Management & Entrepreneurship 52.0799	Business Finance 52.0801	Marketing 52.1402	Construction & Design 46.0000	Automation Engineering 15.0406	Aviation Production 15.0000	Energy 14.4801	Engineering & Applied Mathematics 14.0101	Manufacturing 48.0000	Aviation Maintenance 47.0608	Mobile Equipment Maintenance 47.9999	Restaurant & Event Management 12.0504	Travel & Tourism 52.0901	Early Childhood Development & Services 19.0709	Family, Community & Consumer Services 19.0799	Fashion, Apparel, Interior Design(FAID) 19.0999	Biotechnology 26.1201	Health Science 51.3901	Media Design & Communications 11.0801	Information Support & Services 11.0301	Networking & Telecommunications 11.0901	Programming & Software Development 11.0201	Teaching/Training 13.0101	Government & Public Administration 44.0401 Corrections Security Law & Law Enforcement Services 43 0199	Emergency & Fire Management Services 43.0199	, and a second s
Number	Course Title	Ag	A	흠	ĕ	Z	뮵	B	æ	Z	క	Ā	Ā	흛	E.	ğ	A	š	æ	Tra	Eal	Far	Fas	Bi	He	š	Ξ	ž	돌 .	Je C	3 3	3 .E	
44060	EMT I																								x							х	:
44065	EMT II																								x							х	1
44070	Hazardous Materials for the First Responder																														Х	(x	[
44080	Fire Service Special Operations																															х	[
44100	Fire Science I																															х	:
44101	Fire Science II																															х	[
44200	Law Enforcement I																														Х	(
44201	Law Enforcement II																														Х	(
44210	Certified Protection Officer																														Х	(
44215	Corrections Officer																														Х		
44225	Forensic Science I																														Х	(
44226	Forensic Science II																														Х		
44298	Work Experience in LPSCS																														Х	(x	1
44300	Practical Law																													3	х		
44305	Foundations in Law)	х	(
44310	Legal Proceedings)	х	(
45004	Human Growth & Development – Early Years																				X	x							1	x	Т	Т	
45014	Lifespan Development																					X								x >	K		
60002	Computing Systems (Grade 8)																							х			x	x	x				
60004	Computer Applications (Grade 8)																							X			x	х	x				
68001	Agriculture Explorations I	x	x		_	х	X																										
68002	Agriculture Explorations II	x	x	X	x	x	X																										

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

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.

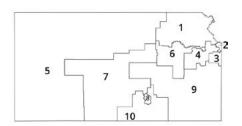
OUTCOMES

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





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Ann E. Mah Legislative Liaison amah@ksde.org



Cathy Hopkins chopkins@ksde.org

DISTRICT 6



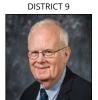
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www.ksde.org

COMMISSIONER OF EDUCATION



Dr. Randy Watson

DEPUTY COMMISSIONER

Division of Fiscal and Administrative Services



Dr. Frank Harwood

DEPUTY COMMISSIONERDivision of Learning Services



Dr. Ben Proctor

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