

Kansas Career Cluster Guidance Handbook 2025-2026

KANSAS CAREER AND TECHNICAL EDUCATION
KANSAS CAREER CLUSTER PATHWAY
DESIGN MODELS

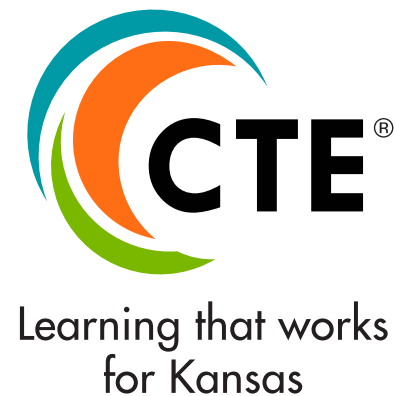


Contents

5	Kansas Career and Technical Education
7	Kansas CTE Career Pathways Infographics
8	Elementary School Level Graphic
9	Middle School Level Graphic
10	Secondary School Level Graphic
11	Kansas Secondary CTE Contacts
13	Kansas Career Cluster Pathways
15	AGRICULTURE
15	Agriculture, Food and Natural Resources Career Cluster Design
15	Agricultural Technology and Mechanical Systems Pathway
16	Animal Science, Health and Related Industries Pathway
17	Diversified Agricultural Science Pathway
19	Food Products and Processing Systems Pathway
20	Natural Resources and Environmental Sustainability Pathway
21	Plant Science and Industry Operations Pathway
22	BUSINESS
22	Business Management and Administration Career Cluster Design
22	Business Management and Entrepreneurship Pathway
24	Finance Career Cluster Design
24	Business Finance Pathway
26	Marketing Career Cluster Design
26	Marketing Pathway
28	DESIGN, PRODUCTION AND REPAIR
28	Architecture and Construction Career Cluster Design
28	Construction and Design Pathway
30	Engineering Career Cluster Design
30	Automation Engineering Pathway
31	Aviation Production Pathway
32	Energy Pathway
33	Engineering and Applied Mathematics Pathway
34	Manufacturing Career Cluster Design
34	Manufacturing Pathway
36	Transportation Career Cluster Design
36	Aviation Maintenance Pathway
38	Mobile Equipment Maintenance Pathway

40	FAMILY AND CONSUMER SCIENCES
40	Hospitality and Tourism Career Cluster Design
40	Restaurant and Event Management Pathway
42	Travel and Tourism Pathway
43	Human Services Career Cluster Design
43	Early Childhood Development and Services Pathway
44	Family, Community and Consumer Services Pathway
45	Fashion, Apparel, Interior Design (FAID) Pathway
46	HEALTH
46	Health and Biosciences Career Cluster Design
46	Biotechnology Pathway
48	Health Science Pathway
50	MEDIA AND TECHNOLOGY
50	Information Technology Career Cluster Design
50	Information Support and Services Pathway
51	Media Design and Communications Pathway
53	Networking and Telecommunications Pathway
54	Programming and Software Development Pathway
55	PUBLIC SERVICES
55	Education and Training Career Cluster Design
55	Teaching/Training
56	Government and Public Administration Career Cluster Design
56	Government and Public Administration Pathway
58	Law, Public Safety, Corrections and Security Career Cluster Design
58	Corrections, Security, Law and Law Enforcement Services Pathway
60	Emergency and Fire Management Services Pathway
61	Kansas CTE Terminology
65	Advisory Committee Information
67	Pathway Crossover Course Information
67	Alphabetical by Course Title
76	Listed by Course Number

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 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.¹

- [CTE Course Competencies and Indicators](#)²

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]

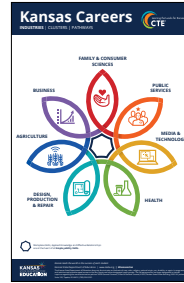
2 Kansas State Department of Education [KSDE]. *CTE Course Competencies and Indicators*. <https://www.ksde.org/Agency/Division-of-Learning-Services/Career-Standards-and-Assessment-Services/CSAS-Home/Career-Technical-Education-CTE/CTE-Course-Competencies-and-Indicators>

Kansas CTE Career Pathways Infographics

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

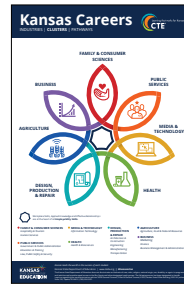
Elementary Version

- Seven Industries.



Middle School Version

- Seven Industries.
- Fifteen Career Clusters.



Secondary Version

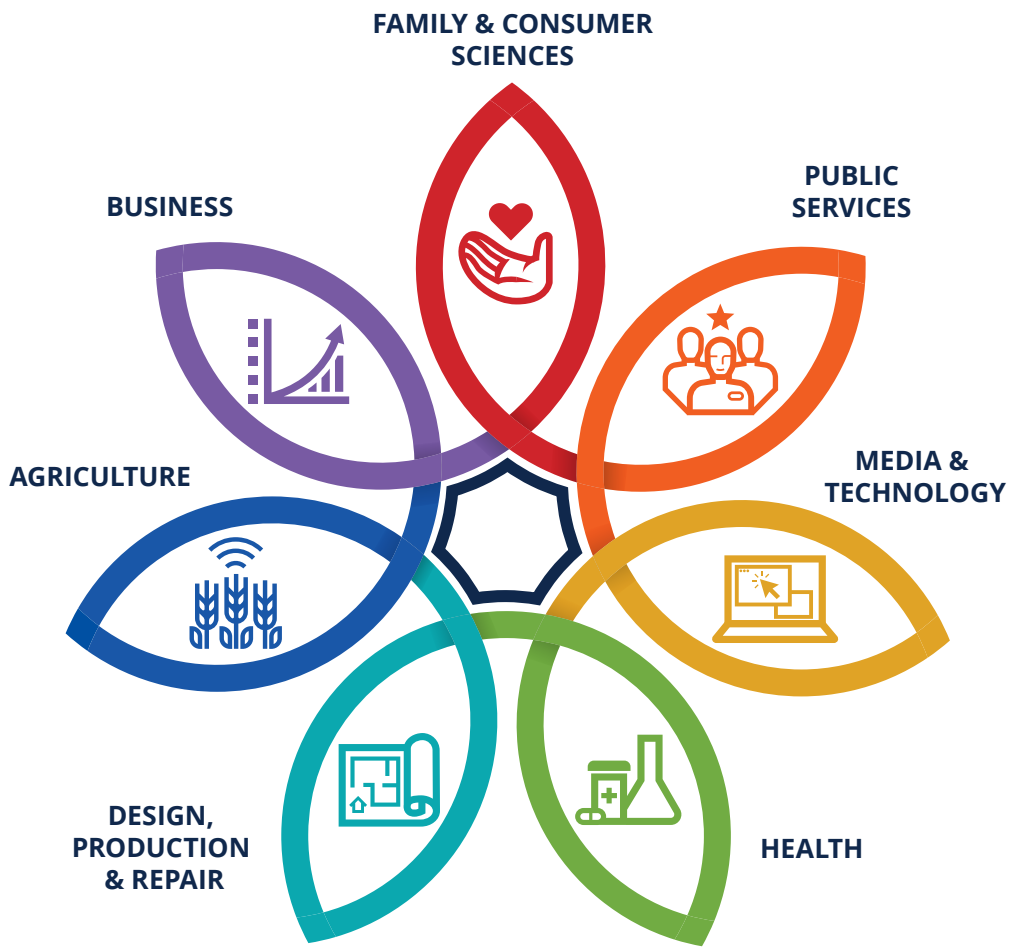

- Seven Industries.
- Fifteen Career Clusters.
- Thirty-two Pathways.



Elementary School Level Graphic

Kansas Careers

INDUSTRIES | CLUSTERS | PATHWAYS



FAMILY & CONSUMER SCIENCES

BUSINESS


PUBLIC SERVICES

AGRICULTURE

MEDIA & TECHNOLOGY

DESIGN, PRODUCTION & REPAIR

HEALTH

 Workplace Skills, Applied Knowledge and Effective Relationships are at the heart of all **Employability Skills**.

KANSAS
STATE DEPARTMENT OF
EDUCATION

Kansas leads the world in the success of each student.

Kansas State Department of Education | www.ksde.org | [#KansansCan](https://twitter.com/KansansCan)

The Kansas State Department of Education does not discriminate on the basis of race, color, religion, national origin, sex, disability or age in its programs and activities and provides equal access to the Boy Scouts and other designated youth groups. The following person has been designated to handle inquiries regarding the nondiscrimination policies: KSDE General Counsel, Office of General Counsel, KSDE, Landon State Office Building, 900 S.W. Jackson, Suite 102, Topeka, KS 66612, (785) 296-3201.

Middle School Level Graphic

Kansas Careers

INDUSTRIES | CLUSTERS | PATHWAYS

FAMILY & CONSUMER SCIENCES

Workplace Skills, Applied Knowledge and Effective Relationships are at the heart of all **Employability Skills**.

<ul style="list-style-type: none"> ● FAMILY & CONSUMER SCIENCES <i>Hospitality & Tourism</i> <i>Human Services</i> ● PUBLIC SERVICES <i>Government & Public Administration</i> <i>Education & Training</i> <i>Law, Public Safety & Security</i> 	<ul style="list-style-type: none"> ● MEDIA & TECHNOLOGY <i>Information Technology</i> ● HEALTH <i>Health & Biosciences</i> 	<ul style="list-style-type: none"> ● DESIGN, PRODUCTION & REPAIR <i>Architecture & Construction</i> <i>Engineering</i> <i>Manufacturing</i> <i>Transportation</i> 	<ul style="list-style-type: none"> ● AGRICULTURE <i>Agriculture, Food & Natural Resources</i> ● BUSINESS <i>Marketing</i> <i>Finance</i> <i>Business Management & Administration</i>
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Kansas leads the world in the success of each student.

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The Kansas State Department of Education does not discriminate on the basis of race, color, religion, national origin, sex, disability or age in its programs and activities and provides equal access to the Boy Scouts and other designated youth groups. The following person has been designated to handle inquiries regarding the nondiscrimination policies: KSDE General Counsel, Office of General Counsel, KSDE, Landon State Office Building, 900 S.W. Jackson, Suite 102, Topeka, KS 66612, (785) 296-3201.

Secondary School Level Graphic

Kansas Careers

INDUSTRIES | CLUSTERS | PATHWAYS

FAMILY & CONSUMER SCIENCES

Employability Skills

BUSINESS

AGRICULTURE

DESIGN, PRODUCTION & REPAIR

PUBLIC SERVICES

MEDIA & TECHNOLOGY

HEALTH

- **FAMILY & CONSUMER SCIENCES**

Hospitality & Tourism

 - Restaurant & Event Management
 - Travel & Tourism

Human Services

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

Information Technology

 - Information Support & Services
 - Media Design & Communications
 - Networking & Telecommunications
 - Programming & Software Development
- **DESIGN, PRODUCTION & REPAIR**

Architecture & Construction

 - Construction & Design

Engineering

 - Automation Engineering
 - Aviation Production
 - Energy
 - Engineering & Applied Mathematics

Manufacturing

 - Manufacturing

Transportation

 - Aviation Maintenance
 - Mobile Equipment Maintenance
- **AGRICULTURE**

Agriculture, Food & Natural Resources

 - Agricultural Technology & Mechanical Systems
 - Animal Science, Health & Related Industries
 - Diversified Agricultural Science
 - Food Products & Processing Systems
 - Natural Resources & Environmental Sustainability
 - Plant Science & Industry Operations
- **PUBLIC SERVICES**

Education & Training

 - Teaching/Training

Government & Public Administration

 - Government & Public Administration

Law, Public Safety, Corrections & Security

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

Health & Biosciences

 - Biotechnology
 - Health Science
- **BUSINESS**

Business Management & Administration

 - Business Management & Entrepreneurship

Finance

 - Business Finance

Marketing

 - Marketing

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Sep. 4, 2024

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
limgauby@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 GUIDANCE HANDBOOK 2025-2026

Kansas Career Cluster Pathways

Pathway Classification of Instructional Program (CIP) Codes

‡ Nontraditional female pathway.

‡ Nontraditional male pathway.



AGRICULTURE

Agriculture, Food and Natural Resources Career Cluster Design

- ‡ Agricultural Technology and Mechanical Systems Pathway _____ 01.0201
- ‡ Animal Science, Health and Related Industries Pathway _____ 01.0901
- Diversified Agricultural Science Pathway _____ 01.0000
- ‡ Food Products and Processing Systems Pathway _____ 01.0401
- Natural Resources and Environmental Sustainability Pathway _____ 03.0101
- ‡ Plant Science and Industry Operations Pathway _____ 01.1101



BUSINESS

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
- ‡ Energy Pathway _____ 14.4801
- ‡ Engineering and Applied Mathematics Pathway _____ 14.0101

Manufacturing Career Cluster Design

- ‡ Manufacturing Pathway _____ 48.0000

Transportation Career Cluster Design

- ‡ Aviation Maintenance Pathway _____ 47.0608
- ‡ Mobile Equipment Maintenance Pathway _____ 47.9999

 Nontraditional female pathway.

 Nontraditional male pathway.



FAMILY AND CONSUMER SCIENCES

Hospitality and Tourism Career Cluster Design

 Restaurant and Event Management Pathway _____ 12.0504

 Travel and Tourism Pathway _____ 52.0901

Human Services Career Cluster Design

 Early Childhood Development and Services Pathway _____ 19.0709

Family, Community and Consumer Services Pathway _____ 19.0799

Fashion, Apparel, Interior Design(FAID) Pathway _____ 19.0999



HEALTH

Health and Biosciences Career Cluster Design

Biotechnology Pathway _____ 26.1201

 Health Science Pathway _____ 51.3901



MEDIA AND TECHNOLOGY

Information Technology Career Cluster Design

 Information Support and Services Pathway _____ 11.0301

Media Design and Communications Pathway _____ 11.0801

 Networking and Telecommunications Pathway _____ 11.0901

 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.

APPROVED PATHWAY:

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.

APPROVED PATHWAY:

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

CIP CODE 01.0000

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
Plant and Animal Science	18301	1
Agricultural Food Science	18305	1
Agricultural Biotechnology	18308	1
▶ Agriculture Mechanics	18401	1
▶ Agriculture 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.

APPROVED PATHWAY:

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.



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.

APPROVED PATHWAY:

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

CIP CODE 01.0401

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.

APPROVED PATHWAY:

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.

APPROVED PATHWAY:

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

CIP CODE 01.1101

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.

APPROVED PATHWAY:

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

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.

APPROVED PATHWAY:


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

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.

APPROVED PATHWAY:

- Includes a minimum of three secondary-level credits.
- Includes a work-based element.
- Consist of a sequence:
 - Introductory-level course.
 - Technical-level course.
 - Application-level course.
- Supporting documentation includes:
 - Articulation Agreement(s).
 - Certification.
 - Program Improvement Plan.
 - Program of Study.
- 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).

APPROVED PATHWAY:

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.



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).

APPROVED PATHWAY:


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

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).

APPROVED PATHWAY:

- Includes a minimum of three secondary-level credits.
- Includes a work-based element.
- Consist of a sequence:
 - Introductory-level course.
 - Technical-level course.
 - Application-level course.
- Supporting documentation includes:
 - Articulation Agreement(s).
 - Certification.
 - Program Improvement Plan.
 - Program of Study.
- 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).

APPROVED PATHWAY:

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 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.

APPROVED PATHWAY:

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.

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.

APPROVED PATHWAY:

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.

APPROVED PATHWAY:

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.



Aviation Production Pathway

CIP CODE 15.0000

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.

APPROVED PATHWAY:

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



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.

APPROVED PATHWAY:

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.



Engineering and Applied Mathematics Pathway

CIP CODE 14.0101

INTRODUCTORY LEVEL

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.

APPROVED PATHWAY:

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



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 39207 and 39208 but not both.

APPROVED PATHWAY:

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.

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.

APPROVED PATHWAY:

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.



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.

APPROVED PATHWAY:

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.



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.

APPROVED PATHWAY:

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.



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.

APPROVED PATHWAY:

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.

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.

APPROVED PATHWAY:

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.

APPROVED PATHWAY:

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.



Restaurant and Event Management Pathway 12.0504

Ⓜ 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.
- Ⓜ Courses may be offered after THREE credits in the technical level have been selected.

APPROVED PATHWAY:

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.



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.

APPROVED PATHWAY:

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




Early Childhood Education Strand



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

Early 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.

APPROVED PATHWAY:

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, 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.

APPROVED PATHWAY:

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.



Fashion, Apparel, Interior Design (FAID) Pathway

CIP CODE 19.0999

INTRODUCTORY LEVEL

Title	Code	Credit
Introduction to Family and Consumer Sciences	19251	1
Career and Life Planning	19258	0.5
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	Code	Credit
★ Apparel Production I	19201	0.5
● Apparel Production II	19203	0.5
★ Fashion Trends	30111	0.5

Interior Design (Strand B)

Title	Code	Credit
★ Interior Design I	19263	0.5
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.

APPROVED PATHWAY:

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.

APPROVED PATHWAY:

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.

Biotechnology Pathway 26.1201

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

APPROVED PATHWAY:

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 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.

APPROVED PATHWAY:


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









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.

APPROVED PATHWAY:

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

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.

APPROVED PATHWAY:

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 Design and Communications Pathway

CIP CODE 11.0801

INTRODUCTORY LEVEL

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

APPROVED PATHWAY:

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

APPROVED PATHWAY:

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.



Networking and Telecommunications Pathway

CIP CODE 11.0901

INTRODUCTORY LEVEL

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.

APPROVED PATHWAY:

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.



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.

APPROVED PATHWAY:

- Includes a minimum of three secondary-level credits.
- Includes a work-based element.
- Consist of a sequence:
 - Introductory-level course.
 - Technical-level course.
 - Application-level course.
- Supporting documentation includes:
 - Articulation Agreement(s).
 - Certification.
 - Program Improvement Plan.
 - Program of Study.
- 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).

APPROVED PATHWAY:

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.

APPROVED PATHWAY:

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.

APPROVED PATHWAY:

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.



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.

APPROVED PATHWAY:

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.



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.

APPROVED PATHWAY:

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.




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.

APPROVED PATHWAY:

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 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 sub-baccalaureate 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: Personalized Learning Plan Guidance Document \(ksde.org\)](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).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](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 following: 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.)

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, 2020](#)¹.

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








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

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 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 43.0299					
2D Animation	10202							X	X																													
3D Animation	10210																																					
AC Electronics	40450																X																					
Accounting	12104							X	X	X																								X	X			
Advanced Accounting	33108									X																												
Advanced Agricultural Internship	18049	X		X	X	X																																
Advanced Agricultural Mechanics	18402	X																																				
Advanced Agricultural Power	18411	X																																				
Advanced Animal Science	18103		X																																			
Advanced Business Management & Entrepreneurship Workplace Experience	32998							X																														
Advanced Drafting/CAD	21150															X																						
Advanced Electricity & Electronics	41270													X																								
Advanced Food Science	18317				X																																	
Advanced Marketing Workplace Experience	12199									X																												
Advanced Materials & Fabrication	38010										X					X																						
Advanced Media Design & Production	31091																										X											
Advanced Plant & Animal Science	18302		X	X		X																																
Aerospace Drawings I	41500													X																								
Aerospace Drawings II	41510													X																								
Aerospace Engineering	21013														X																							
Aerostructures	40620												X																									
Agribusiness Management	18201	X	X	X	X	X	X																															
Agricultural Biotechnology	18308		X	X																																		
Agricultural Construction	18403	X	X																																			
Agricultural Engineering & Technology	18415	X	X																																			








ALPHABETICAL BY COURSE TITLE

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 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 43.0299								
Agricultural Entrepreneurship	18202	X	X	X	X	X																																										
Agricultural Fabrication	18409	X		X																																												
Agricultural Food Science	18305		X	X	X																																											
Agricultural Internship	18048	X	X	X	X	X	X																																									
Agricultural Leadership & Communications	18203	X	X	X	X	X	X																																									
Agricultural Mechanics	18401	X	X																																													
Agricultural Welding I	18404	X	X																				X																									
Agricultural Welding II	18407	X																					X																									
Agriculture Explorations I	68001	X	X	X	X	X	X																																									
Agriculture Explorations II	68002	X	X	X	X	X	X																																									
Agriscience	18002	X	X	X	X	X	X	X																																								
Alternative Power	40210																								X																							
Anatomy & Physiology	03053																																			X	X											
Animal Health	18105		X																																													
Animal Science	18101		X	X	X																																											
AP Computer Science A	10157																																														X	
AP Computer Science Principles	31094																																														X	
AP Environmental Science	03207																					X																										
Apparel Production I	19201																																															
Apparel Production II	19203																																															
Applied Biochemistry	03203																																															
Applied Biotechnology	18320																																															
Applied Business Development	32200									X																	X																					
Applied Business Technology Applications	33110									X	X																																					
Applied Game Design	10165																																															
Applied Graphic Design	31090																																															
Applied Telecommunications	11049																																															X
Architectural Design I	21203																		X																													
Architectural Design II	38223																		X																													
Audio/Video Production I	30103																																															
Audio/Video Production II	30150																																															
Auto Collision I	40300														X											X																						
Auto Collision II	40302																										X																					
Auto Refinishing	40310																										X																					
Auto Refinishing II	40312																										X																					
Automated Integrated Systems I	39010																			X			X																									
Automated Integrated Systems II	39020																			X																												
Automotive Information	40050																										X																					

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 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 43.0299			
Aviation Fundamentals	40410											X				X																				
Aviation Systems	40420											X					X																			
Aviation Tooling	40600											X																								
Baking & Pastry II	16057																		X																	
Baking & Pastry I	16056																		X																	
Banking & Finance	12101							X																												
Biomedical Innovation	14255																							X												
Bioscience Workplace Experience	14998																						X													
Biotechnology Essentials	21014																						X													
Brakes I	40204																X																			
Brakes II	40206																X																			
Business Communications	12009							X	X	X																								X		
Business Economics	12105							X	X	X																								X	X	
Business Essentials	12050							X	X	X							X	X	X																	
Business Law	12054							X	X																									X	X	
Business Management	12052							X	X																									X	X	
Business Management & Entrepreneurship Workplace Experience	12098							X																												
Capstone in Agriculture	18003		X																																	
Care of Athletes	14062																							X												
Career & Life Planning	19258																		X	X	X	X	X									X	X			
Career Connections	19298																		X	X	X	X	X											X		
Certified Medication Aide	36156																							X												
Certified Nursing Assistant	14997																							X												
Certified Patient Care Technician	14202																							X												
Certified Protection Officer	44210																																		X	
Chemistry	03101																						X	X												
Civil Engineering & Architecture	21012													X																						
Coaching & Leadership	19154																															X				
College Accounting	33109							X																												
Community Connections	19297																		X	X	X	X														
Composites	40640											X																								
Computer Applications (Grade 8/Grade 9)	60004/10004																						X	X	X	X	X									
Computer Integrated Manufacturing	21010										X		X																							
Computer Programming	10152										X														X				X							
Computer Programming – Other Languages	10156																													X						
Computer-Aided Machining (CAM) I	13204							X								X																				
Computer-Aided Machining (CAM) II	39205															X																				
Computing Systems (Grade 8)	60002																						X		X	X	X									
Computing Systems (Grade 9)	10002																						X		X	X	X									
Corrections Officer	44215																																		X	
Crop & Range Management	18081				X																															








ALPHABETICAL BY COURSE TITLE

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 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 43.0299			
Culinary Arts I	16053																	X																		
Culinary Arts II	16055																		X																	
Culinary Essentials	16052						X												X	X	X															
Culinary Workplace Experience	16098																		X																	
Cybersecurity I	10020									X																X	X									
Cybersecurity II	10900																									X	X									
Data System/Processing	10054																															X				
Database Applications	10053																															X				
DC Electronics	40460																X																			
Diesel Engine Technology	40218																	X																		
Digital Electronics	21008								X			X	X	X														X								
Digital Marketing	35162						X	X																												
Digital Media Technology	30104																									X										
Drafting/Architecture I	21103								X																			X								
Drafting/Architecture II	38050								X																											
Drafting/CAD	21107						X	X	X	X	X																									
Drafting/Print Reading	21102								X																			X								
Drawing for Designers	30006																									X										
Drive Train Technology	40208																X																			
Early Childhood Applications	19098																											X								
Educational Leadership	19198																																X			
EKG Technician	36991																									X										
Electrical Technology	17113								X					X																						
Electronics & Electrical Systems I	40200																X																			
Electronics & Electrical Systems II	40202																X																			
Emerging Technologies	21053												X												X											
EMS First Responder	44050																								X									X	X	
EMT I	44060																								X											X
EMT II	44065																								X											X
Energy Industry Fundamentals	41105												X																							
Energy, Power & Society	41150												X																							
Engine Mechanical Repair	40216																	X																		
Engine Performance I	40220																	X																		
Engine Performance II	40222																	X																		
Engineering Design	21006									X		X																								
Engineering Design & Development	21007						X						X																							
Entrepreneurship	12053						X	X	X								X	X	X																	
Environmental Resources & Ecology	37506				X																															








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 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 43.0299				
Equine Science	18104	X	X																																		
Essentials of FAID	30110																					X															
Event Planning & Management	34052																		X	X																	
FAID Merchandising & Entrepreneurship	30112																						X														
FAID Studio	30160																						X														
Family Studies	19255																				X	X										X					
Fashion Trends	30111																						X														
Fire Science I	44100																																			X	
Fire Science II	44101																																			X	
Fire Service Special Operations	44080																																			X	
Flight Training	40540															X																					
Food Science	19254				X													X						X													
Forensic Science I	44225																																			X	
Forensic Science II	44226																																			X	
Foundations in Law	44305																																X	X			
Foundations of Early Childhood Development	19052							X														X															
Foundations of Electronics	21201										X	X	X	X	X																						
Foundations of Hospitality & Lodging	16101																				X																
Foundations of Information Technology	10001																										X	X									
Foundations of Rehab	14060																								X												
Foundations of Travel & Tourism	16151																	X	X																		
Fundamentals of Electrical Theory	17101										X																										
Fundamentals of Electricity & Electronics	41170												X																								
Fundamentals of Emergency Services	14055																									X											
General Carpentry I	17002				X					X																											
General Carpentry II	38002									X																											
General Service I	40150						X											X																			
General Service II	40152																	X																			
General Service III	40154																	X																			
GIS Spatial Applications	21112																																	X			
GIS Technology	21058																																	X			
Governance Applications	43250																																			X	
Government & Public Administration Fundamentals	43105																																			X	
Government & Public Media Relations	04990																																			X	
Graphic Design I	30102									X																	X										
Graphic Design II	05162																										X										
Graphic Design Workplace Experience	10248																										X										
Hand & Power Tools	40400										X	X				X	X																				

ALPHABETICAL BY COURSE TITLE








Course Title	Number	Agriculture		Arts & Design		Business & Economics		Education & Health		Engineering & Technology		Humanities & Social Sciences		Law & Public Safety		Manufacturing & Trades																				
		01.0201	01.0901	01.0000	01.0401	03.0101	01.1101	52.0799	52.0801	52.1402	46.0000	15.0406	15.0000	14.4801	48.0000	47.0608	47.9999	12.0504	19.0709	19.0799	19.0999	26.1201	51.3901	11.0801	11.0301	11.0901	11.0201	44.0401	43.0199	43.0299						
Hazardous Materials for the First Responder	44070																															X	X			
Health Care Essentials I	14254																																			
Health Care Essentials II	36254																																			
Health Care Work Experience I	36992																																			
Health Care Work Experience II	36993																																			
Home Health Aide	36053																																			
Horticulture	18052		X	X		X																														
Horticulture, Floriculture & Greenhouse Management	18057					X																														
Hospitality & Lodging Management	16148																																			
Human Body Systems	14102																																			
Human Growth & Development – Early Years	45004																																			
HVAC Technology	17056										X		X		X																					
Hydraulics & Pneumatics	39302										X		X		X	X																				
IB Business & Management	12059						X		X																											
IB Computing	10159																																			
Industrial Maintenance Systems	13303										X																									
Information Support & Services I	10052																																			
Information Support & Services II	10097																																			
Integrated Marketing Applications	12195									X																										
Interactive Media	10203																																			
Interior Architectural Design	38212										X																									
Interior Design I	19263										X																									
Interior Design II	22212										X																									
Introduction to Agriculture	18001	X	X	X	X	X	X																													
Introduction to Computer Coding	31001										X																									
Introduction to Drawing	30005																																			
Introduction to Education	19199																																			
Introduction to Emergency Medical Services (EMS)	44005																																			
Introduction to Energy	41100													X																						
Introduction to Engineering	41310										X		X																							
Introduction to Environmental Science	41207											X																								
Introduction to Family & Consumer Sciences	19251																																			
Introduction to Government & Public Administration	43001																																			
Introduction to Health Care	14000																																			
Introduction to Law, Public Safety, Corrections & Security (LPSCS)	44001																																		X	X
Introduction to Manufacturing	13001										X																									
Introduction to Physical Computing	31002										X																									
Introduction to Skilled Trades	38001										X	X	X																							

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 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 43.0299			
Introduction to Transportation	40100																		X																	
Introduction to Web & Digital Media	5254																									X										
Introduction to Welding	13207														X																					
Investing	12107							X																												
IoT Internet of Things	10006/60006																											X								
IT for Service Professions	44010																																X			
Journalism & Media Communications	30100																									X										
Law Enforcement I	44200																																	X		
Law Enforcement II	44201																																	X		
Leadership Service in Action	19257																			X	X															
Legal Proceedings	44310																															X	X			
Lifespan Development	45014																				X									X	X					
Machine Tool Technology	13203														X																					
Marketing Applications	35300								X																											
Marketing Communications	35168								X																											
Marketing Management	12166								X																											
Marketing Research	12196								X																											
Marketing – Workplace Experience	12198								X																											
Materials Science in Engineering	41355										X	X	X																							
Mechanical/Electrical/Plumbing (MEP) I	17062								X																											
Mechanical Power Transmission Systems	13302									X	X	X	X																							
Media & Public Relations	43115																										X									
Media Design & Production	30151																									X										
Medical Imaging	14103																								X											
Medical Interventions	14105																							X	X											
Medical Terminology	14154																								X											X
Meteorology	03006													X																						
Mobile HVAC	40228																	X																		
Natural Resource Management	18504		X	X																																
Network Systems I	10112																												X							
Network Systems II	10147																												X							
Nursery & Landscape Operations	18067					X																														
Nutrition & Wellness	19253																		X	X	X				X											
Orientation to Early Childhood Development	19051																				X															
Particular Topics in Computer Programming	10160																												X							
Particular Topics in Engineering	21015													X											X											
Pharmacology	14253																								X	X										
Photo Imaging	30105																									X										







Course Title	Number																																				
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Plant & Animal Science	18301	X	X		X																																
Plant & Soil Science	18058		X	X	X																			X													
Plumbing Technology	17058									X					X																						
Practical Law	44300																																	X	X		
Principles of Advertising	12165							X																													
Principles of Applied Engineering	41320											X	X																								
Principles of Biomedical Science	14251																							X													
Principles of Illustration	30101																									X											
Principles of Marketing	12164						X	X											X	X																	
Principles of Pharmacy	36157																								X												
Principles of Phlebotomy	14104																								X												
Production Methods I	13052										X				X	X																					
Production Methods II	39052														X																						
Production Print Reading I	21108								X	X	X			X	X	X																					
Production Print Reading II	39108														X																						
Project Management	41350													X																							
Relationships & Personal Development	19260																																				
Remodeling & Building Maintenance	17009						X		X						X																						
Research & Design for Preconstruction	21109								X																												
Research & Design in Building Trades	17005								X																												
Research in Agriculture	18206	X	X	X	X	X	X																														
Risk Management & Insurance	12106						X																														
Robotics I	21009									X			X	X										X													
Robotics II	38009									X																											
Sheet Metal Technology	13205								X						X																						
Small Animal Care	18102		X	X																																	
Small Engine & Powertrains I	40212																		X																		
Small Engines & Powertrains II	40214																		X																		
Small Power Systems	18410	X	X																																		
Special Projects & Research in Aviation	41520											X																									
Sports/Entertainment Marketing	12163							X																													
Sports Medicine I	14072																									X											
Sports Medicine II	14073																									X											
Steering & Suspension I	40224																		X																		
Steering & Suspension II	40226																		X																		
Sustainable/Alternative Agriculture	18310			X	X																																
Teaching as a Career	19151																																		X		
Teaching Internship	19152																																		X		

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 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 43.0299				
Teaching Observation	42251																				X																
Technical Introduction to Computer Science	41010																																				
Technology for Teachers	19155																																				
Telecommunications	10106																																				
Telecom Workplace Experience	11048																																				
Unmanned Aircraft Systems (UAS)	40490																X																				
Web & Design Workplace Experience	31096																										X										
Web Design	10201							X	X																	X		X									
Welding Processes I	39207	X	X					X			X				X																						
Welding Processes II	39208	X														X																					
Wildlife & Recreation Management	18501				X																																
Wind Energy Operations	41160													X																							
Woodworking Principles	17007									X																											
Work-based Learning in Information Support & Services	10098																												X								
Work-based Learning in Programming & Software Development	10198																											X	X								
Work Experience in Aviation	40700																X																				
Work Experience in Aviation – Comprehensive	40701																X																				
Work Experience in LPSCS	44298																																		X	X	
Work Experience in Manufacturing	13348															X																					
Work Experience in Manufacturing – Comprehensive	13998															X																					
Work Experience in Transportation	40250																	X																			
Work Experience in Transportation – Comprehensive	40251																X																				
Workplace Experience in Architecture & Construction	38100										X																										
Workplace Experience in Architecture & Construction - Comprehensive	38110										X																										
Workplace Experience in Energy	41250													X																							
Workplace Experience in Energy – Comprehensive	41260													X																							
Workplace Experience in Engineering	41048										X	X	X																								
Workplace Experience in Engineering – Comprehensive	21048										X	X	X																								
Workplace Experience in Finance	12148							X																													
Workplace Experience in Finance - Advanced	33200							X																													

Listed by Course Number

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	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				
03006	Meteorology													X																							
03053	Anatomy & Physiology																							X	X												
03101	Chemistry																						X	X													
03203	Applied Biochemistry																						X														
03207	AP Environmental Science												X																								
04990	Government & Public Media Relations																																	X			
05162	Graphic Design II																									X											
05254	Introduction to Web & Digital Media																									X											
10001	Foundations of Information Technology																										X	X									
10002	Computing Systems (Grade 9)																						X		X	X	X										
10004	Computer Applications (Grade 9)																						X		X	X	X	X									
10006/60006	IoT Internet of Things																											X									
10020	Cybersecurity I										X															X		X									
10052	Information Support & Services I																									X											
10053	Database Applications																												X								
10054	Data System/Processing																													X							
10097	Information Support & Services II																										X										
10098	Work-based Learning in Information Support & Services																										X										
10106	Telecommunications																												X								
10112	Network Systems I																												X								
10147	Network Systems II																												X								
10152	Computer Programming										X															X		X									
10156	Computer Programming – Other Languages																													X							
10157	AP Computer Science A																													X							
10159	IB Computing																													X							
10160	Particular Topics in Computer Programming																												X								
10165	Applied Game Design																									X											
10198	Work-based Learning in Programming & Software Development																										X		X								
10201	Web Design							X	X																	X		X									
10202	2D Animation							X	X																	X											
10203	Interactive Media																									X											
10210	3D Animation																									X											
10248	Graphic Design Workplace Experience																									X											
10900	Cybersecurity II																										X		X								
11048	Telecom Workplace Experience																											X									
11049	Applied Telecommunications																											X									
12009	Business Communications							X	X	X																										X	








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12050	Business Essentials							X	X	X								X	X	X																	
12052	Business Management							X	X																									X	X		
12053	Entrepreneurship							X	X	X								X	X	X																	
12054	Business Law							X	X																									X	X		
12059	IB Business & Management							X	X																												
12098	Business Management & Entrepreneurship Workplace Experience							X																													
12101	Banking & Finance								X																												
12104	Accounting							X	X	X																									X	X	
12105	Business Economics							X	X	X																									X	X	
12106	Risk Management & Insurance								X																												
12107	Investing								X																												
12148	Workplace Experience in Finance							X																													
12163	Sports/Entertainment Marketing									X																											
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																								
13203	Machine Tool Technology																																				
13204	Computer-Aided Machining (CAM) I							X																													
13205	Sheet Metal Technology									X																											
13207	Introduction to Welding																																				
13302	Mechanical Power Transmission Systems										X	X																									
13303	Industrial Maintenance Systems										X																										
13348	Work Experience in Manufacturing																																				
13998	Work Experience in Manufacturing – Comprehensive																																				
14000	Introduction to Health Care																																			X	
14055	Fundamentals of Emergency Services																																			X	
14060	Foundations of Rehab																																			X	
14062	Care of Athletes																																			X	
14072	Sports Medicine I																																			X	
14073	Sports Medicine II																																			X	
14102	Human Body Systems																																			X	
14103	Medical Imaging																																			X	








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14104	Principles of Phlebotomy																																			
14105	Medical Interventions																							X	X											
14154	Medical Terminology																							X												X
14202	Certified Patient Care Technician																							X												
14251	Principles of Biomedical Science																							X												
14253	Pharmacology																							X	X											
14254	Health Care Essentials I																							X												
14255	Biomedical Innovation																							X												
14997	Certified Nursing Assistant																							X												
14998	Bioscience Workplace Experience																							X												
16052	Culinary Essentials						X												X	X		X														
16053	Culinary Arts I																		X																	
16055	Culinary Arts II																		X																	
16056	Baking & Pastry I																		X																	
16057	Baking & Pastry II																		X																	
16098	Culinary Workplace Experience																		X																	
16101	Foundations of Hospitality & Lodging																				X															
16148	Hospitality & Lodging Management																				X															
16151	Foundations of Travel & Tourism																		X	X																
17002	General Carpentry I						X			X																										
17005	Research & Design in Building Trades										X																									
17007	Woodworking Principles										X																									
17009	Remodeling & Building Maintenance						X			X				X																						
17056	HVAC Technology										X		X		X																					
17058	Plumbing Technology										X				X																					
17062	Mechanical/Electrical/Plumbing (MEP) I										X																									
17101	Fundamentals of Electrical Theory											X																								
17113	Electrical Technology										X			X																						
18001	Introduction to Agriculture	X	X	X	X	X	X																													
18002	Agriscience	X	X	X	X	X	X	X																												
18003	Capstone in Agriculture			X																																
18048	Agricultural Internship	X	X	X	X	X	X																													
18049	Advanced Agricultural Internship	X			X	X	X																													
18052	Horticulture			X	X	X																														
18057	Horticulture, Floriculture & Greenhouse Management						X																													
18058	Plant & Soil Science			X	X	X																		X												
18067	Nursery & Landscape Operations						X																													
18081	Crop & Range Management						X																													

PATHWAY CROSSOVER COURSE INFORMATION | KANSAS CAREER GUIDANCE HANDBOOK 2025-2026
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18101	Animal Science	X	X	X																																
18102	Small Animal Care		X	X																																
18103	Advanced Animal Science		X																																	
18104	Equine Science		X	X																																
18105	Animal Health		X																																	
18201	Agribusiness Management	X	X	X	X	X	X																													
18202	Agricultural Entrepreneurship	X	X	X	X	X	X																													
18203	Agricultural Leadership & Communications	X	X	X	X	X	X																													
18206	Research in Agriculture	X	X	X	X	X	X																													
18301	Plant & Animal Science		X	X			X																													
18302	Advanced Plant & Animal Science		X	X			X																													
18305	Agricultural Food Science		X	X	X																															
18308	Agricultural Biotechnology		X	X																																
18310	Sustainable/Alternative Agriculture			X		X																														
18317	Advanced Food Science				X																															
18320	Applied Biotechnology																							X												
18401	Agricultural Mechanics	X	X																																	
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																															
19051	Orientation to Early Childhood Development																						X													
19052	Foundations of Early Childhood Development																						X													
19098	Early Childhood Applications																						X													
19151	Teaching as a Career																																	X		
19152	Teaching Internship																																	X		
19154	Coaching & Leadership																																	X		
19155	Technology for Teachers																																	X		
19198	Educational Leadership																																	X		
19199	Introduction to Education																						X										X			
19201	Apparel Production I																							X												
19203	Apparel Production II																							X												

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19251	Introduction to Family & Consumer Sciences																		X	X	X	X	X										X			
19253	Nutrition & Wellness																		X	X		X		X												
19254	Food Science				X													X						X												
19255	Family Studies																				X	X											X			
19257	Leadership Service in Action																				X	X												X		
19258	Career & Life Planning																		X	X	X	X	X									X	X			
19260	Relationships & Personal Development																					X														
19263	Interior Design I										X													X												
19297	Community Connections																		X	X	X	X														
19298	Career Connections																		X	X	X	X	X											X		
21006	Engineering Design											X		X																						
21007	Engineering Design & Development						X							X																						
21008	Digital Electronics										X		X	X	X													X								
21009	Robotics I										X		X	X											X											
21010	Computer Integrated Manufacturing										X		X																							
21012	Civil Engineering & Architecture													X																						
21013	Aerospace Engineering													X																						
21014	Biotechnology Essentials																									X										
21015	Particular Topics in Engineering													X											X											
21048	Workplace Experience in Engineering – Comprehensive										X	X		X																						
21053	Emerging Technologies													X											X											
21058	GIS Technology																																	X		
21102	Drafting/Print Reading										X													X												
21103	Drafting/Architecture I										X													X												
21107	Drafting/CAD						X				X	X		X	X																					
21108	Production Print Reading I										X	X	X		X	X	X																			
21109	Research & Design for Preconstruction										X																									
21112	GIS Spatial Applications																																	X		
21150	Advanced Drafting/CAD															X																				
21201	Foundations of Electronics											X		X	X	X	X																			
21203	Architectural Design I										X																									
22212	Interior Design II										X																									
30005	Introduction to Drawing																																			
30006	Drawing for Designers																																			
30100	Journalism & Media Communications																																			
30101	Principles of Illustration																																			
30102	Graphic Design I										X																									
30103	Audio/Video Production I																																			
30104	Digital Media Technology																																			








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30105	Photo Imaging																								X										
30110	Essentials of FAID																					X													
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															
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																								X										
36254	Health Care Essentials II																								X										
36991	EKG Technician																								X										
36992	Health Care Work Experience I																								X										
36993	Health Care Work Experience II																								X										
37506	Environmental Resources & Ecology					X																													
38001	Introduction to Skilled Trades										X	X	X			X	X	X																	
38002	General Carpentry II										X																								
38009	Robotics II											X																							
38010	Advanced Materials & Fabrication										X				X																				
38050	Drafting/Architecture II										X																								
38100	Workplace Experience in Architecture & Construction										X																								








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38110	Workplace Experience in Architecture & Construction - Comprehensive									X																										
38212	Interior Architectural Design									X																										
38223	Architectural Design II									X																										
39010	Automated Integrated Systems I										X				X																					
39020	Automated Integrated Systems II										X																									
39052	Production Methods II														X																					
39108	Production Print Reading II														X																					
39205	Computer-Aided Machining (CAM) II														X																					
39207	Welding Processes I	X	X			X				X					X																					
39208	Welding Processes II	X													X																					
39302	Hydraulics & Pneumatics									X	X	X	X																							
40050	Automotive Information																																			X
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
40212	Small Engine & Powertrains I																																			X
40214	Small Engines & Powertrains II																																			X
40216	Engine Mechanical Repair																																			X
40218	Diesel Engine Technology																																			X
40220	Engine Performance I																																			X
40222	Engine Performance II																																			X
40224	Steering & Suspension I																																			X
40226	Steering & Suspension II																																			X
40228	Mobile HVAC																																			X
40250	Work Experience in Transportation																																			X
40251	Work Experience in Transportation – Comprehensive																																			X
40300	Auto Collision I						X																													X
40302	Auto Collision II																																			X
40310	Auto Refinishing																																			X
40312	Auto Refinishing II																																			X
40400	Hand & Power Tools									X	X				X	X																				

PATHWAY CROSSOVER COURSE INFORMATION | KANSAS CAREER GUIDANCE HANDBOOK 2025-2026
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40410	Aviation Fundamentals											X				X																			
40420	Aviation Systems											X					X																		
40450	AC Electronics																X																		
40460	DC Electronics																X																		
40490	Unmanned Aircraft Systems (UAS)																X																		
40540	Flight Training																X																		
40600	Aviation Tooling											X																							
40620	Aerostructures											X																							
40640	Composites											X																							
40700	Work Experience in Aviation																X																		
40701	Work Experience in Aviation – Comprehensive																X																		
41010	Technical Introduction to Computer Science																															X			
41048	Workplace Experience in Engineering										X	X		X																					
41100	Introduction to Energy												X																						
41105	Energy Industry Fundamentals												X																						
41150	Energy, Power & Society												X																						
41160	Wind Energy Operations												X																						
41170	Fundamentals of Electricity & Electronics												X																		X				
41207	Introduction to Environmental Science												X																						
41250	Workplace Experience in Energy												X																						
41260	Workplace Experience in Energy – Comprehensive												X																						
41270	Advanced Electricity & Electronics												X																						
41310	Introduction to Engineering										X			X																					
41320	Principles of Applied Engineering												X	X																					
41350	Project Management													X																					
41355	Materials Science in Engineering										X		X	X																					
41500	Aerospace Drawings I											X																							
41510	Aerospace Drawings II											X																							
41520	Special Projects & Research in Aviation											X																							
42251	Teaching Observation																			X												X			
43001	Introduction to Government & Public Administration																																X		
43105	Government & Public Administration Fundamentals																																X		
43115	Media & Public Relations																								X										
43250	Governance Applications																																X		
44001	Introduction to Law, Public Safety, Corrections & Security (LPSCS)																																	X	X
44005	Introduction to Emergency Medical Services (EMS)																																		X
44010	IT for Service Professions																															X			
44050	EMS First Responder																							X									X	X	

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44060	EMT I																																			X	
44065	EMT II																																			X	
44070	Hazardous Materials for the First Responder																																		X	X	
44080	Fire Service Special Operations																																			X	
44100	Fire Science I																																			X	
44101	Fire Science II																																			X	
44200	Law Enforcement I																																			X	
44201	Law Enforcement II																																			X	
44210	Certified Protection Officer																																			X	
44215	Corrections Officer																																			X	
44225	Forensic Science I																																			X	
44226	Forensic Science II																																			X	
44298	Work Experience in LPSCS																																		X	X	
44300	Practical Law																																		X	X	
44305	Foundations in Law																																			X	X
44310	Legal Proceedings																																			X	X
45004	Human Growth & Development – Early Years																				X	X													X		
45014	Lifespan Development																				X														X	X	
60002	Computing Systems (Grade 8)																							X			X	X	X								
60004	Computer Applications (Grade 8)																							X			X	X	X								
68001	Agriculture Explorations I	X	X	X	X	X	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

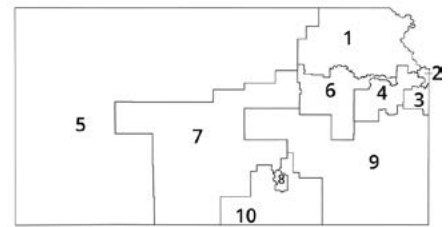
to be successful in postsecondary education, in the attainment of an industry recognized certification or in the workforce, without the need for remediation.

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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DISTRICT 3



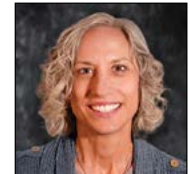
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Kansas leads the world in the success of each student.

Jan. 25, 2024

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