Kansas State Department of Education Career and Technical Education (CTE)

Summary of Pathway Changes for 2027-2028

All changes made to the Pathways for 2027-2028 are found in the 2027-2028 Career Cluster Guidance Handbook. Some changes may require remapping of a course or courses through KCCMS prior to the completion of the CPPSA due on 3/1/27. It is recommended that you map new courses in KCCMS by 2/15/2027.

CTE Course Competencies

Agricultural Technology & Mechanical Systems

- Added to Pathway
  - 12053 – Entrepreneurship
- Changes to courses in Pathway
  - 18048 – Agricultural Technology & Mechanical Systems Work Based Learning
  - 18049 - Advanced Agricultural Technology & Mechanical Systems Work Based Learning

Animal Science, Health and Related Industries

- Removed from Pathway
  - 18048 – Agricultural Internship
  - 18049 – Advanced Agricultural Internship
- Added to Pathway
  - 12053 – Entrepreneurship
  - 18148 – Animal Science, Health, and Related Industries Work Based Learning
  - 18150 – Advanced Animal Science, Health, and Related Industries Work Based Learning

Diversified Agricultural Science

- Removed from Pathway
  - 18048 – Agricultural Internship
  - 18049 – Advanced Agricultural Internship
- Added to Pathway
  - 12053 – Entrepreneurship
  - 18338 – Diversified Agricultural Science Work Based Learning
  - 18400 – Advanced Diversified Agricultural Science Work Based Learning

Food Products and Processing Systems

- Removed from Pathway
  - 18048 – Agricultural Internship
  - 18049 – Advanced Agricultural Internship
- Added to Pathway
  - 12053 – Entrepreneurship
  - 18348 – Food Products & Processing Systems Work Based Learning
  - 18350 – Advanced Food Products & Processing Systems Work Based Learning

Plant Science & Industry Operations

- Removed from Pathway
  - 18048 – Agricultural Internship
  - 18049 – Advanced Agricultural Internship
- Added to Pathway
  - 12053 – Entrepreneurship
  - 18098 – Plant Science & Industry Operations Work Based Learning
  - 18110 – Advanced Plant Science & Industry Operations Work Based Learning

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Summary of Pathway Changes for 2027-2028

Energy

- Added to Pathway
  - 12053 – Entrepreneurship
- Changes to courses in Pathway
  - 13302 - Mechanical Drive Systems
  - 39302 - Fluid Power
  - 41250 – Energy Work Based Learning
  - 41260 – Advanced Energy Work Based Learning
  - 41355 – Materials Science in Engineering

Natural Resources and Environmental Sustainability

- Removed from Pathway
  - 18048 – Agricultural Internship
  - 18049 – Advanced Agricultural Internship
- Added to Pathway
  - 12053 – Entrepreneurship
  - 18548 – Natural Resources & Environmental Sustainability Work Based Learning
  - 18550 – Advanced Natural Resources & Environmental Sustainability Work Based Learning

Business Management & Entrepreneurship

New CIP Code – 52.0201 (from 52.0799)

- Removed from Pathway
  - All Supportive Entrepreneurship courses.
- Added to Pathway
  - 12051 AP Introduction to Business
- Changes to courses in Pathway
  - 12009 – Business Communications
  - 12050 – Business Essentials
  - 12052 – Business Management
  - 12053 - Entrepreneurship
  - 12054 – Business Law
  - 12059 – IB Business & Management
  - 12098 – Business Management & Entrepreneurship Work Based Learning
  - 32200 – Applied Business Development
  - 32998 – Advanced Business Management & Entrepreneurship Work Based Learning

Business Finance

- Added to Pathway
  - 12051 AP Introduction to Business
- Changes to courses in Pathway
  - 12009 – Business Communications
  - 12050 – Business Essentials
  - 12053 – Entrepreneurship
  - 12054 – Business Law
  - 12148 – Business Finance Work Based Learning
  - 33200 – Advanced Business Finance Work Based Learning

Marketing

- Added to Pathway
  - 12051 AP Introduction to Business
- Changes to courses in Pathway
  - 12009 – Business Communications
  - 12050 – Business Essentials
  - 12052 – Business Management
  - 12053 – Entrepreneurship
  - 12059 – IB Business & Management
  - 12198 – Marketing Work Based Learning

Summary of Pathway Changes for 2027-2028

- 12199 – Advanced Marketing Work Based Learning

Restaurant and Event Management

- Removed from Pathway
  - 19298 – Career Connections
- Added to Pathway
  - 16108 – Advanced Restaurant and Event Management Work Based Learning
- Changes to courses in Pathway
  - 12050 – Business Essentials
  - 12053 - Entrepreneurship
  - 16098 - Restaurant and Event Management Work Based Learning
  - 32200 – Applied Business Development

Travel and Tourism

- Removed from Pathway
  - 19298 – Career Connections
- Added to Pathway
  - 16998 – Advanced Travel & Tourism Work Based Learning
- Changes to courses in Pathway
  - 12050 – Business Essentials
  - 12053 – Entrepreneurship
  - 16148 - Travel & Tourism Work Based Learning

Automation Engineering & Industrial Machine Maintenance Technology

Pathway name changed from Automation Engineering

- Removed from Pathway
  - 21048 – Workplace Experience in Engineering - Comprehensive
  - 41048 - Workplace Experience in Engineering
- Added to Pathway
  - 12053 - Entrepreneurship
  - 21107 – Drafting/CAD
  - 21068 – AE & IMMT Work Based Learning
  - 41068 – Advanced AE & IMMT Work Based Learning
- Changes to courses in Pathway
  - 10020 – Cybersecurity I
  - 13302 – Mechanical Drive Systems
  - 13303 – Industrial Maintenance Systems
  - 21108 – Production Print Reading I
  - 39020 – Automated Integrated Systems II
  - 39302 – Fluid Power
  - 41355 – Materials Science in Engineering

Aviation Production

New CIP Code 15.0801 (from 15.0000)

- Removed from Pathway
  - 21048 – Workplace Experience in Engineering – Comprehensive
  - 41048 - Workplace Experience in Engineering
- Added to Pathway
  - 12053 - Entrepreneurship
  - 13001 – Introduction to Manufacturing
  - 21013 – Aerospace Engineering
  - 21078 – Aviation Production Work Based Learning
  - 41078 – Advanced Aviation Production Work Based Learning
- Changes to courses in Pathway

Summary of Pathway Changes for 2027-2028

- 21107 – Drafting/CAD
- 21108 – Production Print Reading I
- 13052 – Production Methods I

Engineering & Design

Pathway name changed from Engineering & Applied Mathematics and new CIP Code 14.4101 (from 14.0101)

- Removed from Pathway
  - 21015 – Particular Topics in Engineering
  - 21053 – Emerging Technologies
- Added to Pathway
  - 21150 – Advanced Drafting/CAD
  - 21202 – Advanced Electronics
  - 21016 – Engineering Systems
  - 12053 - Entrepreneurship
- Changes to courses in Pathway
  - 21007 – Engineering Design Capstone
  - 21107 – Drafting/CAD
  - 21108 – Production Print Reading I
  - 41350 – Project Management
  - 41355 – Materials Science in Engineering
  - 21048 – Advanced Engineering & Design Work Based Learning
  - 41048 – Engineering & Design Work Based Learning

Manufacturing

New CIP Code 48.0503 (from 48.0000)

- Removed from Pathway
  - 13302 – Mechanical Power Transmission Systems
  - 21201 – Foundations of Electronics
  - 21150 – Advanced Drafting/CAD
  - 39010 – Automated Integrated Systems
  - 13205 – Sheet Metal Technology
  - 17009 – Remodeling & Building Maintenance
  - 17056 – HVAC Technology
  - 17058 – Plumbing Technology
  - 17113 – Electrical Technology
  - 21008 – Digital Electronics
  - 39302 – Hydraulics & Pneumatics
- Added to Pathway
  - 12053 - Entrepreneurship
  - 13001 – Introduction to Manufacturing
  - 39206 – Cutting Processes
  - 39209 - SMAW I
  - 39211 – GMAW I
  - 39213 – GTAW I
  - 39210 – SMAW II
  - 39212 – GMAW II
  - 39214 – GTAW II
  - 13213 – Machine Tool Technology II
- Changes to courses in Pathway
  - 13207 – Introduction to Welding
  - 13052 – Production Methods I
  - 13203 – Machine Tool Technology
  - 13204 – Computer-Aided Machining (CAM) I
  - 39052 – Production Methods II
  - 13348 – Manufacturing Work Based Learning
  - 13398 – Advanced Manufacturing Work Based Learning
  - 21107 – Drafting/CAD
  - 21108 – Production Print Reading I
  - 39205 – Computer-Aided Machining (CAM) II

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Construction and Design

- Added to Pathway
  - 12053 - Entrepreneurship
- Changes to courses in Pathway
  - 21107 – Drafting/CAD
  - 21108 – Production Print Reading I
  - 38100 – Construction & Design Work Based Learning
  - 38110 – Advanced Construction & Design Work Based Learning

Aviation Maintenance and Operations

- Added to Pathway
  - 12053 - Entrepreneurship
- Changes to courses in Pathway
  - 21108 – Production Print Reading I
  - 40700 – Aviation Maintenance & Operations Work Based Learning
  - 40701 – Advanced Aviation Maintenance & Operations Work Based Learning

Vehicle Maintenance and Repair

- Changes to courses in Pathway
  - 12050 – Business Essentials
  - 12053 – Entrepreneurship
  - 40250 – Vehicle Maintenance & Repair Work Based Learning
  - 40251 – Advanced Vehicle Maintenance & Repair Work Based Learning

Logistics & Supply Chain Management

New Pathway with CIP Code 52.0203

- Added to Pathway
  - 12050 – Business Essentials
  - 12051 - AP Introduction to Business
  - 12052 – Business Management
  - 12009 – Business Communication
  - 12053 – Entrepreneurship
  - 12104 – Accounting
  - 12054 – Business Law
  - 20151 - Supply Chain Management
  - 20152 – Logistics I
  - 20153 – Logistics II
  - 20197 – Logistics & Supply Chain Management Work Based Learning
  - 20198 – Advanced Logistics & Supply Chain Management Work Based Learning
  - 44070 – Hazardous Materials for the First Responder
  - 40240 - CDL – Entry Level Driver Training

Biotechnology

- Added to Pathway
  - 12053 - Entrepreneurship
  - 14298 – Advanced Biotechnology Work Based Learning
- Changes to courses in Pathway
  - 14998 - Biotechnology Work Based Learning

Health Science

- Added to Pathway
  - 12053 – Entrepreneurship
- Changes to courses in Pathway
  - 36992 – Health Science Work Based Learning
  - 36993 – Advanced Health Science Work Based Learning

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Summary of Pathway Changes for 2027-2028

Family, Community and Consumer Services

- Added to Pathway
  - 12053 – Entrepreneurship
- Changes to courses in Pathway
  - 19296 - Family, Community and Consumer Services (Human Services) Work Based Learning
  - 19299 – Advanced Family, Community and Consumer Services (Human Services) Work Based Learning

Information Support & Services

New CIP Code 11.1006 (from 11.0301)

- Added to Pathway
  - 10024 – AP Cybersecurity
  - 10201 – Web Design
  - 12053 - Entrepreneurship
  - 30098 – Advanced Information Support & Service Work Based Learning
- Changes to courses in Pathway
  - 10001 – Foundations of Information Technology
  - 10052 – Information Support & Services I
  - 10020 – Cybersecurity I
  - 10098 – Information Support & Services Work Based Learning

Media Design & Communications

- Added to Pathway
  - 12053 - Entrepreneurship
  - 30115 – Photo Imaging II
  - 30248 – Advanced Media Design & Communications Work Based Learning
- Changes to courses in Pathway
  - 30101 – Principles of Illustration
  - 10202 – 2D Animation
  - 30105 – Photo Imaging I
  - 10248 – Media Design and Communications - Graphic Design Work Based Learning
  - 31096 – Media Design and Communications -Web & Design Work Based Learning

Networking and Telecommunications

- Removed from Pathway
  - 60006/10006 – IoT Internet of Things
- Added to Pathway
  - 10023 – AP Networking
  - 10024 – AP Cybersecurity
  - 12053 – Entrepreneurship
  - 31048 – Advanced Networking and Telecommunications Work Based Learning
- Changes to courses in Pathway
  - 10001 – Foundations of Information Technology
  - 10112 – Network Systems I
  - 11048 – Networking and Telecommunications Work Based Learning

Programming and Software Development

- Removed from Pathway
  - 60004/10004 – Computer Applications
  - 31002 – Introduction to Physical Computing
  - 10054 – Data System/Processing

Summary of Pathway Changes for 2027-2028

- 10156 – Computer Programming – Other Languages
- 10900 – Cybersecurity II

- Added to Pathway
  - 05254 - Introduction to Web & Digital Media
  - 10024 – AP Cybersecurity
  - 10170 – Foundations of Artificial Intelligence
  - 10165 – Applied Game Design
  - 12053 – Entrepreneurship
  - 30198 – Advanced Programming and Software Development Work Based Learning
- Changes to courses in Pathway
  - 10198 - Programming and Software Development Work Based Learning
  - 41010 – Foundations of Computer Science
  - 10160 – Computer Science Capstone
  - 10020 – Cybersecurity I

Early Childhood Development and Services

- Removed from Pathway
  - 19098 – Childhood Applications
- Changes to courses in Pathway
  - 12053 - Entrepreneurship
  - 19301 – Early Childhood Development & Services Work Based Learning
  - 19302 – Advanced Early Childhood Development & Services Work Based Learning

Teaching/Training

- Added to Pathway
  - 12053 - Entrepreneurship
  - 19158 – Advanced Teaching/ Training Work Based Learning
- Changes to courses in Pathway
  - 19152- Teaching/Training Work Based Learning Work Based Learning

Government and Public Administration

- Removed from Pathway
  - 19298 Career Connections
- Added to Pathway
  - 12053 – Entrepreneurship
  - 43253 – Government & Public Administration Work Based Learning
  - 43260 - Advanced Government & Public Administration Work Based Learning
- Changes to courses in Pathway
  - 12052 – Business Management
  - 12054 – Business Law

Corrections, Security, Law & Law Enforcement Services

- Added to Pathway
  - 12053 - Entrepreneurship
  - 44350 – Advanced Corrections, Security, Law & Law Enforcement Services Work Based Learning
- Changes to the Pathway
  - 12009 - Business Communications
  - 12052 – Business Management
  - 12054 – Business Law
  - 44298 – Corrections, Security, Law & Law Enforcement Services Work Based Learning

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Summary of Pathway Changes for 2027-2028

Emergency & Fire Management Services

- Removed from Pathway
  - 44298 – Work Experience in LPSCS
- Added to Pathway
  - 12053 - Entrepreneurship
  - 44250 - Emergency & Fire Management Services Work Based Learning
  - 44252 – Advanced Emergency & Fire Management Services Work Based Learning

CTE Course Competencies