

NOVEMBER 6, 2025

Kansas Postsecondary Technical Education Authority
Technical Program and Curriculum Committee
Curtis State Office Building
1000 SW Jackson, Suite 520
Topeka, KS 66612

2025-2026

Technical Program and Curriculum Committee:

Mike Beene, Chair

Cindy Hoover, Vice Chair

Ray Frederick, Jr.

Debra Mikulka

Dr. Tiffany Anderson

Natalie Clark

Dave Reist

Building a Future

Higher Education's Commitment to Kansas Families, Businesses, and the Economy

1. Helping Kansas families
2. Supporting Kansas businesses
3. Advancing economic prosperity

2025-2026 KANSAS POSTSECONDARY TECHNICAL EDUCATION AUTHORITY GOALS



Goals

- 1) Evaluate the impact of the modernized National Career Cluster Framework implementation on the Kansas postsecondary education system, funding, and reporting. Develop a plan for transfer to the new Framework which aligns with the secondary education system.
- 2) Investigate the active duty and veteran student services in the Kansas postsecondary system, specifically the use of military-originated credit articulation and transfer procedures. Evaluate current military-originated credit data, identify reporting gaps, and develop a set of criteria and recommendations for effective military-originated data collection and reporting.
- 3) Resume program performance reviews using previously established criteria to validate and communicate the value of technical education in developing a skilled workforce and meeting the needs of business and industry.
- 4) Identify and share best practices in reducing and/or eliminating the actual fees high school students participating in the Excel in CTE programs are assessed and ensure actual costs and potential subsidies are adequately communicated.
- 5) Partner with Kansas technical colleges to develop and implement targeted objectives that guide the use of the Kansas Technical College Operating Grant Fund (HB 2195) in supporting instructional and operational priorities.
- 6) Collaborate with the Excel in CTE Task Force to develop a system-wide policy for course failures, create consistent placement guidelines for participating high school students, and finalize the review of Excel in CTE programs needing further analysis.
- 7) Diversify and strengthen the Adult Education funding base to expand and sustain services, while advancing collaboration and integration among Community Colleges, Technical Colleges, and Adult Education Centers.

TABLE OF CONTENTS

Item		Page
Meeting Agenda	.....	1
Minutes of Previous Meeting	.....	2
Consideration of Discussion Agenda	.....	3
Postsecondary TEA Meeting Dates	.....	16
Kansas Board of Regents Dates	.....	17

MEETING AGENDA

The Kansas Postsecondary Technical Education Authority's Technical Program and Curriculum Committee will meet virtually through Zoom.

Thursday, November 6, 2025

- | | | |
|--|---|--------------|
| I. Call To Order | Chair Beene | |
| II. Approval of Minutes
<i>A. October 9, 2025</i> | Chair Beene | <i>p. 2</i> |
| III. Consideration of Discussion Agenda | | |
| <i>A. Act on Request(s) for Degree and/or Certificate Programs from Community Colleges and Technical Colleges:</i> | Charmine Chambers, Director for Workforce Development | <i>p. 3</i> |
| <i>1. Wichita State University Campus of Applied Sciences and Technology: Automation Engineer Technology (15.0406)</i> | | |
| <i>B. Act on Request(s) for New Promise Act Program(s):</i> | Charmine Chambers, Director for Workforce Development | <i>p. 5</i> |
| <i>1. Wichita State University Campus of Applied Sciences and Technology: Automation Engineer Technology (15.0406)</i> | | |
| <i>C. Act on Request(s) for Excel in CTE Fee approval</i> | Charmine Chambers, Director for Workforce Development | <i>p. 6</i> |
| <i>1. Butler Community College: Emergency Medical Technician (EMT) Course</i> | | |
| <i>D. Act on Articulated Credit with Kansas State Department of Education:</i> | Crystal Roberts, Associate Director for Workforce Development | <i>p. 9</i> |
| <i>1. Automation Engineer Technology (15.0406)</i> | | |
| <i>2. Industrial Machine/Maintenance Technology (47.0303)</i> | | |
| IV. Next Meeting Reminder
Thursday, December 4, 2025 | Chair Beene | <i>p. 15</i> |
| V. Adjournment | Chair Beene | <i>p. 15</i> |

**KANSAS POSTSECONDARY
TECHNICAL EDUCATION AUTHORITY**
Technical Program and Curriculum Committee
MINUTES
October 9, 2025

The Kansas Postsecondary Technical Education Authority’s Technical Program and Curriculum Committee met via Zoom on October 9, 2025. Proper notice was given according to the law.

MEMBERS PRESENT: Mike Beene, Chair
 Cindy Hoover, Vice Chair
 Debra Mikulka
 Natalie Clark
 Ray Frederick, Jr.
 David Reist

MEMBERS ABSENT: Dr. Tiffany Anderson

Charmine Chambers called the meeting to order at 3:00 p.m.

CONSIDERATION OF DISCUSSION AGENDA

2025-2026 Kansas Postsecondary Technical Education Authority Goals

Charmine Chambers, Director for Workforce Development, presented background information regarding the Technical Education Authority's goals. The goals established for the 2024-2025 academic year either warrant carrying over or modification for the 2025-2026 academic year. The goals are:

1. Explore opportunities to diversify the funding base for Adult Education services to ensure expansion and sustainability of those services. Activities could include identification and active pursuit of potential funding sources such as grants, private partnerships, and government funding programs.
2. Identify and share best practices in reducing and/or eliminating the actual fees high school students participating in the Excel in CTE programs are assessed and ensure actual costs and potential subsidies are adequately communicated.
3. Improve collaboration and integration of programs between Community Colleges and Technical Colleges and Adult Education centers to streamline joint programs, educational pathways, and communication channels, ensuring seamless transitions for learners and between institutions.
4. Explore a method to report participation, promote awareness, and emphasize business & industry partnerships and the value of customized training occurring at the institutions using input from community colleges, technical colleges, and universities.

The committee discussed these goals and what needs to be recommended to the full Kansas Postsecondary Technical Education Authority (TEA) for adoption. The TEA staff will prepare these recommended goals for presentation to the full TEA at their next meeting.

APPROVAL OF MINUTES

Chair Beene requested a motion regarding the minutes from the committee’s September 7, 2025, meeting. Member Frederick moved to approve the minutes as presented, and Member Hoover seconded the motion. The motion passed unanimously.

NEXT MEETING REMINDER

Chair Beene announced that the next scheduled Program and Committee Meeting would be on November 6, 2025. He also reminded the group of the upcoming TEA meeting on October 23, 2025.

ADJOURNMENT

Chair Beene adjourned the meeting at 3:47 p.m.

III. A. Act on New Career Technical Education Programs **Charmine Chambers,
Director, Workforce
Development**

Summary

To develop and enhance the talent pipeline for Kansas business and industry, new programs and/or additional programs are required. The Board office received a proposal from the Wichita State University Campus of Applied Sciences and Technology.

The proposing institution has responded to all criteria requested and no comments were received during the Board policy-required 10-day comment period from October 16, 2025, to October 30, 2025. The program was reviewed by Board staff and is presented for review and discussion by the Technical Education Authority's Program and Curriculum Committee.

Background

Community and technical colleges submit requests for new certificate and degree programs utilizing forms approved by Board staff. Criteria addressed during the application process include but are not limited to the following: program description, demand for the program, duplication of existing programs, faculty requirements, costs and funding, and program approval at the institution level.

Descriptions of Proposed Programs:

Institution: Wichita State University Campus of Applied Sciences and Technology (WSU Tech)

I. General Information and Program Identification

Program Title	Automation Engineer Technology
Degree Level(s) and Credit Hours	Technical Certificate C/52 credit hours, and Associate of Applied Science/61 credit hours
Responsible Department or Unit	Victoria Philo, Program Director for WSU Tech Automation Department
CIP Code	15.0406 Automation Engineer Technology/Technician
SOC Code	17-3023 Electrical and Electronic Engineering Technologists and Technicians 17-2034 Elector-Mechanical and Mechatronics Technologists and Technicians
Industry-Recognized Certifications	OSHA-10, NC3 Certifications in 3M PPE, Precision Measuring Instruments, Snap-on Torque, Hand Tool, 575 Meter, Soldering, and FESTO Industry 4.0 Fundamentals. Once approved, the industry interest and demand for ISA-CST Associate and CAP Associate exams will be assessed as certification options available to students
Clinical Sites/Work-Based Learning	NA
Number of Projected Enrollments	Year 1: 10 Year 2: 22 Year 3: 22
Accrediting Body Approval Status	NA
Aligned Program Status	Yes
Proposed Implementation	Fall 2026

II. Program Rationale and Information

Wichita State University Campus of Applied Sciences and Technology (WSU Tech) explained that initially the need for the new program was identified during a review of job postings. Through discussions with local business and industry, enough need and difference in job opportunities, employers, and identified skills sets between the Industrial

Machine Maintenance Technology program and an Automation Engineer Technology program were identified to justify a new program.

This program has undergone the process of Program Alignment at the system level, and WSU Tech indicated they intend to continue to meet the statewide program alignment. A degree map was provided in the application, and this program consists of a single pathway or track. A letter of support from Maize USD 266 as the program will be offered to high school students.

III. Program Demand – Note: High Wage occupation, 2025 Kansas DOL listing.

A. Source: Kansas Department of Labor Long-term Occupation Projections 2022-2032 for 17-3023

Annual change in employment: .2%
 Annual median wage: \$73,240
 Annual openings: 71
 Typical education for occupation entry: Associate’s degree

B. Source: Lightcast Job Postings: September 2024 – September 2025

Total postings: 105 Total, (29 unique)
 Annual median advertised salary: Insufficient data
 Removing job postings with no education level listed, 76% of postings indicate an associate’s degree for entry in the occupation.

WSU Tech explained that the FY25-26 Perkins Comprehensive Local Needs Assessment for the region showed no concentrators for 61 annual openings.

Seven letters of support for the proposed program were received from Textron Aviation, Spirit Aerosystems, Renshenhouse, Metal Fab, Inc., Airxcel, Inc., Hartfiel Automation, and the Arnold Group. Supports and commitments for the program include interviewing graduates for available positions, equipment donations, access to applied learning opportunities, and serving on the advisory committee.

IV. Duplication of Existing Programs and Collaboration

Currently four institutions offer this program based on CIP code and/or program title. Below are the colleges, programs, total number of concentrators, total number of graduates, total number of graduates exiting the higher education system and employed, and average wage of graduates who exited the higher education system and are employed information from the 2024 K-TIP report, which includes only technical programs in two-year postsecondary institutions.

Kansas Training Information Program						
2024 K-TIP Automation Engineer Technology/Technician 15.0406						
CIP Code	Program Name	Institution	Total # Concentrators	Total # Graduates	Total # Graduates Exited & Employed	Average Wage: Graduates Exited & Employed
15.0406	Automation Engineer Technology/Technician	Hutchinson Community College	20	^	^	^
15.0406	Automation Engineer Technology/Technician	Johnson County Community College	49	^	^	^
15.0406	Automation Engineer Technology/Technician	Kansas City Kansas Community College	14	^	^	^
47.0303	Industrial Maintenance and Automation Technology	Salina Area Technical College (new program AY2025, met alignment for 15.0406)	NA	NA	NA	NA
Total			83	17	14	\$72,278

(^) small cell protection applied.

WSU Tech explained that collaboration with other institutions offering the program via the KSDE-Automation Pathway creation, program alignment process, and previous work with Kansas City Kansas Community College for a DOL-SCCTG grant have taken place previously. Additionally, WSU Tech has joined an informal group of maintenance and automation programs and faculty to discuss program offerings.

V. Cost and Funding for Proposed Program

The college estimates the initial cost of the proposed program at \$113,700 total. Funding sources include student fees and New Building Planning sources.

Equipment and Tools:	\$3,000
Instructional Supplies/Technology:	\$15,000
Faculty:	\$95,700 for existing, full-time faculty

**III. B. Act on Request(s) for New Promise Act Program(s) Charmine Chambers,
Director for Workforce
Development**

Summary

The Kansas Legislature enacted the Kansas Promise Scholarship Act, which provides scholarships for students to attend an eligible postsecondary education institution. Eligible programs include any two-year associate degree program, career and technical education certificate, or stand-alone program that are approved by the Board of Regents and correspond to high wage, high demand, or critical need occupations in:

- *four specified fields of study (information technology and security; mental and physical healthcare; advanced manufacturing and building trades; and early childhood education and development).*
- *one college designated field of study from the specified list (Agriculture; Food and Natural Resources; Education and Training; Law, Public Safety, Corrections, and Security; or Distribution and Logistics).*
- *transfer programs with established 2+2 and/or articulation agreements.*

Background

On May 23, 2022, Governor Kelly signed 2022 Senate Substitute for House Bill 2567, which adopted changes in the Kansas Promise Scholarship Act, K.S.A. 2022 Supp. 74-32,271 et seq. The Act also maintains that the Board of Regents will administer the program. Administration is broken into three categories: rules and regulations, eligible programs, and other responsibilities.

Per statutory language (K.S.A. 2022 Supp. 74-32,271(b)(4) and K.S.A. 2022 Supp. 74-32,272(c)(1)(B)), a “promise eligible program” means any two-year associate degree program or career and technical education certificate or stand-alone program offered by an eligible postsecondary educational institution that is:

- a) approved by the Board of Regents;
- b) high wage, high demand, or critical need; and
- c) identified as a “promise eligible program” by the Board of Regents pursuant to K.S.A. 2022 Supp. 74-32,272, within any of the following fields of study:
 - Information Technology and Security
 - Mental and Physical Healthcare
 - Advanced Manufacturing and Building Trades
 - Early Childhood Education and Development

K.S.A. 2022 Supp. 74-32,272(a) states an eligible postsecondary educational institution may designate an additional field of study to meet local employment needs if the promise eligible programs within this field are two-year associate degree programs or career and technical education certificate and stand-alone programs approved by the Board of Regents that correspond to jobs that are high wage, high demand, or critical need in the community from one of the following fields:

- Agriculture;
- Food and Natural Resources;

- Education and Training;
- Law, Public Safety, Corrections, and Security; or
- Distribution, Logistics, and Transportation

K.S.A. 2022 Supp. 74-32,272(d) states that the Board of Regents may designate an associate degree transfer program as an eligible program only if such program is included in:

- An established 2+2 agreement with a Kansas four-year postsecondary education institution; or
- An articulation agreement with a Kansas four-year postsecondary educational institution and is part of an established degree pathway that allows a student to transfer at least sixty credit hours from the eligible from the eligible postsecondary educational institution to a four-year postsecondary education institution for the completion of an additional sixty credit hours toward a bachelor's degree.

Recommendation

The following program is seeking approval to become a Promise Act eligible program. The program has been reviewed by Board staff and is brought forward for review by the Technical Education Authority' Program and Curriculum Committee:

- Wichita State University Campus of Applied Sciences and Technology: Automation Engineer Technology (15.0406) falls under the Advanced Manufacturing and Building Trades category specified in legislation. SOC 17-3023 for Electrical and Electronic Engineering Technologists and Technicians and SOC 17-3024 for Electro-Mechanical and Mechatronics Technologists and Technicians were identified as High Wage occupations on the 2025 High Demand Occupations list from the Kansas Department of Labor.

III. C. Act on Excel in Career Technical Education Fees

**Charmine Chambers,
Director for Workforce
Development**

Summary

To enhance the talent pipeline for Kansas business and industry, the Legislature enacted the Excel in CTE initiative to provide state-financed colleges tuition for high school students in postsecondary technical education courses. Per statute (K.S.A. 72-3810), the Kansas Board of Regents shall establish general guidelines for tuition and fee schedules in career technical education courses and programs. The Excel in CTE tuition and fee schedule of every technical education program shall be subject to annual approval.

Background

K.S.A 72-3810 states:

“All tuition and fees charged for career technical education by any board shall be in such amounts as are authorized by rules and regulations adopted by the state board which shall establish general guidelines for tuition and fee schedules in career technical education courses and programs. The tuition and fee schedule of every career technical education program shall be subject to annual approval of the state board. A current complete schedule of tuition and fees for each career technical education course and program of each board as approved by the state board shall be maintained on file in the office of the state board and shall be open for public inspection at any reasonable time.”

"Fees means those charges assessed against a student by a community college, technical college or the institute of technology for student services, such as health clinics, athletic activities and technology services, or for books, supplies or other materials necessary for a particular course or program, the expense of which is not covered by tuition.”

"Tuition means those charges assessed against a student by a community college, technical college or the institute of technology on a per credit hour, per course or per term basis, and that are charged to cover the general expense of providing instructional services.”

As per the Postsecondary Technical Education Authority's (TEA) request, on Thursday, December 19, 2019, representatives from community colleges, technical colleges, and Board staff met to set guidelines for fees associated with Excel in CTE courses and programs. As a result of this meeting, agreed upon allowable fees include items/services students take with them and industry-specific fees required for entrance/acceptance into the program.

Allowable fees include:

- Uniforms
- Personal protective equipment
- Background checks
- Fingerprints
- Drug tests
- E-subscriptions/E-books
- Textbooks
- Printing fees for textbooks/E-books
- Certification tests
- Membership fees for certifying bodies
- Liability insurance (example: student malpractice)
- Graduation fees (if applicable)
- Transcript fees (if applicable)
- Student Software Licenses
- Professional Equipment/Kits/Tools students purchase

Unallowable fees include:

- Student fees (general)
- Technology fees
- Health fees
- Consumable project materials
- Program or Institution Application fees
- Lab Fees
- Equipment/tool maintenance, usage, replacement
- Rental (such as tools, books, or uniform/gear)
- Student kits
- Accuplacer or other placement tests
- Student ID
- Student organization memberships (such as Skills USA)
- Fees charged on a per credit-hour basis
- Any other fee not on the allowable list

Non-tiered courses - per statute (K.S.A. 71-1802) a technical program is defined as a “program of study comprised of a sequence of tiered technical courses and non-tiered courses, which is identified by the state board as a technical program for funding purposes.” For this reason, students enrolled in technical programs may take non-tiered courses and are responsible for all associated tuition and fees.

Recommendation

The Excel in CTE fees below have been reviewed by KBOR staff and are provided for discussion by the Technical Education Authority's Technical Program and Curriculum Committee. Individual documents for each program follow this issue paper to provide details on the individual fee descriptions:

- Butler Community College: Fee increase for background checks for Emergency Medical Technician (EMT) course. Changing from \$50 to \$80 effective for spring 2026 term.

KBOR Excel in CTE Fee Summary for Proposed Academic Programs

*Per statute (K.S.A. 72-3810), the Kansas Board of Regents shall establish general guidelines for tuition and fee schedules in career technical education courses and programs. The Excel in CTE tuition and fee schedule of every technical education program shall be subject to annual approval.
Please include all costs charged to **high school students** for the proposed new program.*

Institution Name:	Butler Community College
Program Title:	Emergency Medical Technician
Program CIP Code:	51.0904 // 43.0904

<i>Please list all fees associated with this program: Only list costs the institution is charging students.</i>		
Fee	Short Description	Amount

<i>Please list all courses within the program and any fees associated to those courses: Only list costs the institution is charging students. Do not duplicate expenses.</i>		
Course ID	Short Description	Amount
FS212 Emergency Medical Technician (EMT) - 12 credit hour course	Butler CC Background check and drug screening - change of contract vendors from Corporate Screening to Assured Occupational Solutions due to closure of Corporate Screening location in college service area.	\$80
	<i>*All other existing course fees for FS212 will stand, the fee for the Butler CC background / drug screening is increasing due to a change in vendors. *</i>	

<i>Please list items the student will need to purchase on their own for this program: Institution is not charging students these costs, rather students are expected to have these items for the program.</i>		
Item	Short Description	Estimated Amount

III. D. 1. Act on Automation Engineer Technology Articulated Credit with Kansas State Department of Education

Crystal Roberts, Associate Director for Workforce Development

Summary

One of the foundational strategic priorities of the Postsecondary Technical Education Authority (TEA) has been to enhance technical education in the state through the alignment of specific technical programs to ensure the needs of business and industry are consistently met. Program Alignment has four primary objectives: provide direct business and industry input regarding required and preferred technical skills needed as well as program exit points matching employment opportunities for graduates; identify nationally recognized third-party industry-recognized certifications; identify common and support courses within a program; and decrease the variability in program length. The TEA and Kansas Board of Regents (KBOR) approved Program Alignment process model was developed through cooperative efforts of community and technical college representatives, authority members, and KBOR staff. Providing aligned articulated course credit between secondary and postsecondary technical education programs across Kansas is an extension of the model.

Background

One of the strategic priorities of the Postsecondary Technical Education Authority (TEA) is to enhance technical education in our state by the alignment of specific technical programs. This project is driven by the needs of business and industry in the state. Program Alignment consists of five phases:

- Phase I: Research and industry engagement.
- Phase II: Faculty engagement and aligning curriculum with certifications.
- Phase III: Approval of program structure and curriculum.
- Phase IV: Implementation.
- Phase V: Standards revision.

Kansas statute §74-32,402(10) states that the TEA shall “coordinate the development of a seamless system for the delivery of technical education between the secondary-school level and the postsecondary-school level.” In addition, the Strengthening Career and Technical Education for the 21st Century Act (Perkins V) outlines that state leadership activities may use funding to establish statewide articulation agreements aligned to approved programs of study. In accordance with both the state and federal statutes, a Perkins Reserve Grant was developed for statewide articulated credit to fall under Phase V of the program realignment process.

Phase V: Standards Revision: Automation Engineer Technology (15.0406)

The Automation Engineer Technology programs at the postsecondary level were last realigned in 2024. With the current program alignment, competencies identified within the common courses represent opportunities for articulation with the Kansas Department of Education (KSDE).

In January of 2025, a Perkins Reserve Grant was established to provide a \$2,500 stipend each for up to two postsecondary faculty representatives to create a crosswalk of articulated credit options from KSDE pathway courses to Kansas Board of Regents (KBOR) common courses in aligned programs. The end goal of this grant project was to transform this articulated credit crosswalk into a statewide articulation map for secondary coursework to postsecondary coursework for Automation Engineer Technology.

Preferred candidates for the grant were Automation Engineer Technology (AET) faculty representatives having experience with the postsecondary program alignment process as well as secondary-level pathway/course reviews. Ali Abdulsattar from Kansas City Kansas Community College (KCKCC) and Tony Lockwood from Johnson County Community College (JCCC) were selected for this project, with both serving as Associate Professor with their respective college’s AET program and revising the program structure and curriculum to meet the recent program realignment. Dr. Abdulsattar has a mechanical engineering background working in industry as a Management and Training Specialist in the oil/gas sector, experience in advanced manufacturing, and previously aligning two-year to four-year degrees including accreditation efforts. Mr. Lockwood has a background working with controls design and integration, project management/advising, and electrical engineering across various industries including

water/wastewater, oil/gas/mining, agriculture, and diverse manufacturing processes (rubber compounding, human/pet food production, and plastics/PVC compounding).

Automation Engineer Technology program faculty and administrators from three institutions, KSDE staff, and KBOR staff met virtually on September 2, 2025, to review the articulated course credit crosswalk proposal initially developed by Dr. Abdulsattar and Mr. Lockwood. The proposed crosswalk was based on comparisons of KSDE pathway course competencies to KBOR common course competencies and pre-existing caveats included in KSDE Statewide Articulation Agreements with individual two-year colleges. It was determined that there was no available industry-recognized certification (IRC) for high school students that directly matches the combination of high school courses. The articulated credit crosswalk proposal then followed the standard program alignment process for a 10-day faculty comment period.

The proposed articulated credit crosswalk was issued for presidential comment from September 17, 2025, to October 1, 2025. No comments requesting modifications to the proposed Automation Engineer Technology articulated credit crosswalk were received.

Recommendation

The proposed Automation Engineer Technology articulated credit crosswalk has been reviewed by Board staff and is recommended for approval by the Technical Education Authority’s Technical Program and Curriculum Committee.

Automation Engineering Technology Articulated Credit - KSDE to KBOR Alignment Crosswalk		
Recommended that students earn a B or higher for any of the courses listed.		
Students must meet listed KSDE Benchmarks: Qualification Requirements to be granted college credit.		

AC/DC Circuits		
High School Course	KSDE Course Code	College Common Course
Fundamentals of Electrical Theory	17101	AC/DC Circuits (4 Credits)
	OR	
Foundations of Electronics	21201	

Industrial Fluid Power		
High School Course	KSDE Course Code	College Common Course
Introduction to Engineering	41310	Industrial Fluid Power (3 Credits)
	AND	
Materials Science in Engineering	41355	
	AND	
Hydraulics and Pneumatics	39302	

Programmable Logic Controllers (PLC)		
High School Course	KSDE Course Code	College Common Course
Introduction to Computer Coding	31001	Programmable Logic Controllers (3 Credits)
	AND	
Automated Integrated Systems I	39010	
	AND	
Automated Integrated Systems II	39020	

Industrial Robotics		
High School Course	KSDE Course Code	College Common Course
Robotics I	21009	Industrial Robotics (3 Credits)
	AND	
Robotics II	39009	

KSDE Benchmarks: Qualification Requirements	
17101/Fundamentals of Electrical Theory	BENCHMARK 1: INTRODUCTION TO ELECTRICITY - Competencies 1.1 - 1.4
	BENCHMARK 2: ELECTRICAL COMPONENTS - Competencies 2.1 - 2.4
	BENCHMARK 3: ELECTRICAL SAFETY - Competencies 3.1 - 3.4
	BENCHMARK 4: READING ELECTRICAL DIAGRAMS - Competencies 4.1 - 4.3
	BENCHMARK 5: ELECTRICAL MEASUREMENTS AND TESTING - Competencies 5.1 - 5.3
21201/Foundations of Electronics	BENCHMARK 1: LAB PRACTICES - Competencies 1.1 - 1.2
	BENCHMARK 2: DEMONSTRATE PROFICIENCY IN DC CIRCUITS - Competencies 2.1 - 2.11
	BENCHMARK 3: DEMONSTRATE PROFICIENCY IN AC CIRCUITS - Competencies 3.1 - 3.7
41310/Introduction to Engineering	BENCHMARK 1: SAFETY & INTRODUCTION - Competencies 1.1 - 1.6
	BENCHMARK 2: METHODOLOGY & COMMUNICATION - Competency 2.2
41355/Materials Science in Engineering	BENCHMARK 1: NATURE OF MATERIAL AND MATERIAL SCIENCE- Competencies 1.1 - 1.6
	BENCHMARK 2: MATERIALS, STRUCTURES AND PROPERTIES - Competencies 2.1, 2.7 - 2.9
39302/Hydraulics & Pneumatics	BENCHMARK 1: Competencies 1.1 - 1.11

31001/Introduction to Computer Coding	BENCHMARK 1: Competencies 1.1 - 1.14
39010/Automated Integrated Systems I	BENCHMARK 1: PLC BASICS AND OVERVIEW - Competencies 1.1 - 1.14
	BENCHMARK 2: PLC HARDWARE AND PROCESSING - Competencies 2.1 - 2.6
	BENCHMARK 3: PROGRAMMING PLC - Competencies 3.1 - 3.6
	BENCHMARK 4: PLC COMMUNICATION - Competencies 4.1 - 4.3
39020/Automated Integrated Systems II	BENCHMARK 1: Competencies 1.1 - 1.11
21009/Robotics I	BENCHMARK 1: INTRODUCTION AND CORE KNOWLEDGE- Competencies 1.1 - 1.4
	BENCHMARK 2: DESIGN AND TROUBLESHOOTING - Competencies 2.1 - 2.3
	BENCHMARK 3: PROGRAMMING - Competencies 3.1 - 3.3
	BENCHMARK 4: TECHNICAL DATA AND STATISTICS - Competencies 4.1 - 4.5
39009/Robotics II	BENCHMARK 1: APPLICATION AND TROUBLESHOOTING SKILLS - Competencies 1.1, 1.4 - 1.5, 1.7 - 1.9

NOTES:
To receive postsecondary credit for Automated Engineering Technology courses, the student must:
1. Complete the KSDE approved high school Career Cluster Pathway (CCP) program with a minimum of a 3.0 cumulative high school GPA. Student must earn a B or higher for any of the KSDE/high school courses listed.
2. Attain completer status through successful completion of high school CCP sequence of courses. (A completer is a student who has earned a minimum of three secondary level credits in a single CTE pathway, with at least two of those credits being a combination of technical and application-level courses. The student must also earn or complete at least one or more of the following aligned to the Pathway/Program: Industry-recognized certification or passing score on a third-party, end-of-pathway assessment; Excel in CTE Qualifying Recognized Credential; Nine + college hours leading to completion of a certificate or postsecondary program; or High-quality work-based learning career preparation experience [KSDE, <i>Kansas Career Cluster Guidance Handbook 2025-2026</i> , p.63] .)
3. Provide a certified letter or official transcript from high school verifying the completion of the designated CCP to the postsecondary institution's Office of the Registrar.
4. Submit a CCP Credit Award Request Form signed by an authorized high school official verifying completion of the KSDE approved CCP to the postsecondary institution's Office of the Registrar.
5. Meet all of the postsecondary institution's admissions criteria and program prerequisites.
6. Successfully complete the next postsecondary course in the sequence.
7. Complete a minimum of 12 credit hours of postsecondary institution's undergraduate coursework as a full-time direct from high school student in good standing with at least a 2.0 GPA.

III. D. 2. Act on Industrial Machine/Maintenance Technology Articulated Credit with Kansas State Department of Education

Crystal Roberts, Associate Director for Workforce Development

Summary

One of the foundational strategic priorities of the Postsecondary Technical Education Authority (TEA) has been to enhance technical education in the state through the alignment of specific technical programs to ensure the needs of business and industry are consistently met. Program Alignment has four primary objectives: provide direct business and industry input regarding required and preferred technical skills needed as well as program exit points matching employment opportunities for graduates; identify nationally recognized third-party industry-recognized certifications; identify common and support courses within a program; and decrease the variability in program length. The TEA and Kansas Board of Regents (KBOR) approved Program Alignment process model was developed through cooperative efforts of community and technical college representatives, authority members, and KBOR staff. Providing aligned articulated course credit between secondary and postsecondary technical education programs across Kansas is an extension of the model.

Background

One of the strategic priorities of the Postsecondary Technical Education Authority (TEA) is to enhance technical education in our state by the alignment of specific technical programs. This project is driven by the needs of business and industry in the state. Program Alignment consists of five phases:

- Phase I: Research and industry engagement.
- Phase II: Faculty engagement and aligning curriculum with certifications.
- Phase III: Approval of program structure and curriculum.
- Phase IV: Implementation.
- Phase V: Standards revision.

Kansas statute §74-32,402(10) states that the TEA shall “coordinate the development of a seamless system for the delivery of technical education between the secondary-school level and the postsecondary-school level.” In addition, the Strengthening Career and Technical Education for the 21st Century Act (Perkins V) outlines that state leadership activities may use funding to establish statewide articulation agreements aligned to approved programs of study. In accordance with both the state and federal statutes, a Perkins Reserve Grant was developed for statewide articulated credit to fall under Phase V of the program realignment process.

Phase V: Standards Revision: Industrial Machine/Maintenance Technology (47.0303)

The Industrial Machine/Maintenance Technology programs at the postsecondary level were last realigned in 2024. With the current program alignment, competencies identified within the common courses represent opportunities for articulation with the Kansas Department of Education (KSDE).

In January of 2025, a Perkins Reserve Grant was established to provide a \$2,500 stipend each for up to two postsecondary faculty representatives to create a crosswalk of articulated credit options from KSDE pathway courses to Kansas Board of Regents (KBOR) common courses in aligned programs. The end goal of this grant project was to transform this articulated credit crosswalk into a statewide articulation map for secondary coursework to postsecondary coursework for Industrial Machine/Maintenance Technology.

Preferred candidates for the grant were Industrial Machine/Maintenance Technology (IMMT) faculty representatives having experience with the postsecondary program alignment process as well as secondary-level pathway/course reviews. Chaz Havens from Washburn Institute of Technology and Nicolas Stricker from Wichita State University Campus of Applied Sciences and Technology were selected for this project, with both actively participating in the revision of their respective college’s IMMT program structure and curriculum to meet the recent program realignment. Dr. Havens is the Assistant Dean of Instructional Services with a background in electronics maintenance/repair, motor controls, machine mechanics, and technical instruction working in diverse industry sectors including the military, defense/space manufacturing, and mailing distribution services. Mr. Stricker is an Industrial

Automation instructor with a diverse background in metal fabrication, metal/composite structural repair, machine mechanics, and service training/instruction across various industries including aviation, recreation, and integrated manufacturing.

Industrial Machine/Maintenance Technology program faculty and administrators from seven institutions, KSDE staff, and KBOR staff met virtually on August 27, 2025, to review the articulated course credit crosswalk proposal initially developed by Dr. Havens and Mr. Stricker. The proposed crosswalk was based on comparisons of KSDE pathway course competencies to KBOR common course competencies and pre-existing caveats included in KSDE Statewide Articulation Agreements with individual two-year colleges. It was determined that there was no available industry-recognized certification (IRC) for high school students that directly matches the combination of high school courses. The articulated credit crosswalk proposal then followed the standard program alignment process for a 10-day faculty comment period.

The proposed articulated credit crosswalk was issued for presidential comment from September 16, 2025, to September 30, 2025. No comments requesting modifications to the proposed Industrial Machine/Maintenance Technology articulated credit crosswalk were received.

Recommendation

The proposed Industrial Machine/Maintenance Technology articulated credit crosswalk has been reviewed by Board staff and is recommended for approval by the Technical Education Authority’s Technical Program and Curriculum Committee.

Industrial Machine/Maintenance Technology Articulated Credit - KSDE to KBOR Alignment Crosswalk		
Recommended that students earn a B or higher for any of the courses listed.		
Students must meet listed KSDE Benchmarks: Qualification Requirements to be granted college credit for AC/DC Circuits.		

AC/DC Circuits		
High School Course	KSDE Course Code	College Common Course
Foundations of Electronics	21201	AC/DC Circuits (4 credit hours)

KSDE Benchmarks: Qualification Requirements	
20201/Foundations of Electronics	BENCHMARK 2: DEMONSTRATE PROFICIENCY IN DC CIRCUITS - Competencies 2.1 - 2.11
	BENCHMARK 3: DEMONSTRATE PROFICIENCY IN AC CIRCUITS - Competencies 3.1 - 3.7

NOTES:
To receive postsecondary credit for Industrial Machine/Maintenance Technology courses, the student must:
1. Complete the KSDE approved high school Career Cluster Pathway (CCP) program with a minimum of a 3.0 cumulative high school GPA. Student must earn a B or higher for any of the KSDE/high school courses listed.
2. Attain completer status through successful completion of high school CCP sequence of courses. (A completer is a student who has earned a minimum of three secondary level credits in a single CTE pathway, with at least two of those credits being a combination of technical and application-level courses. The student must also earn or complete at least one or more of the following aligned to the Pathway/Program: Industry-recognized certification or passing score on a third-party, end-of-pathway assessment; Excel in CTE Qualifying Recognized Credential; Nine + college hours leading to completion of a certificate or postsecondary program; or High-quality work-based learning career preparation experience [KSDE, Kansas Career Cluster Guidance Handbook 2025-2026, p.63].)
3. Provide a certified letter or official transcript from high school verifying the completion of the designated CCP to the postsecondary institution's Office of the Registrar.
4. Submit a CCP Credit Award Request Form signed by an authorized high school official verifying completion of the KSDE approved CCP to the postsecondary institution's Office of the Registrar.
5. Meet all of the postsecondary institution's admissions criteria and program prerequisites.
6. Successfully complete the next postsecondary course in the sequence.
7. Complete a minimum of 12 credit hours of postsecondary institution's undergraduate coursework as a full-time direct from high school student in good standing with at least a 2.0 GPA.

IV. Next Meeting Reminder
Thursday, December 4, 2025

Chair Beene

V. Adjournment

Chair Beene

Postsecondary TEA Meeting Dates 2025-2026

All meetings are streamed live at: <https://www.youtube.com/@kborkansas1908>

TEA Meeting Dates

Location

TEA meeting times and locations are subject to change based on the availability of the committee members

Thursday, August 21, 2025	KBOR Office, Topeka - 10 a.m.
Thursday, September 11, 2025	Conference Call - 10 a.m.
Thursday, October 23, 2025	KBOR Office, Topeka - 10 a.m.
Thursday, November 20, 2025	Conference Call - 10 a.m.
Thursday, December 18, 2025	Conference Call - 10 a.m.
Thursday, January 22, 2026	KBOR Office, Topeka - 10 a.m.
Thursday, February 19, 2026	Conference Call - 10 a.m.
Thursday, March 26, 2026	KBOR Office, Topeka - 10 a.m.
Thursday, April 23, 2026	Conference Call - 10 a.m.
Thursday, May 28, 2026	KBOR Office, Topeka - 10 a.m.

Committee Conference Call Meeting Dates

Location

Committee meeting times and dates are subject to change based on the availability of the committee members

All Committee meetings are conference calls

Thursday, August 7, 2025	<p>Budget/Finance Committee: 8:30 a.m. to 9:30 a.m.</p> <p>Program/Curriculum Committee: 3:00 p.m. to 4:30 p.m.</p>
Thursday, October 9, 2025	
Thursday, November 6, 2025	
Thursday, December 4, 2025	
Thursday, January 8, 2026	
Thursday, February 5, 2026	
Thursday, March 12, 2026	
Thursday, April 9, 2026	
Thursday, May 14, 2026	



2025-2026 KANSAS BOARD OF REGENTS MEETING DATES

September 17-18, 2025

November 19, 2025

December 17-18, 2025

January 14-15, 2026

February 11-12, 2026

March 11-12, 2026

May 20-21, 2026

June 17-18, 2026

★ LEADING HIGHER EDUCATION ★