

TRANSFER PATHWAY GUIDE

FOR

Associate in Applied Science in Electrical Technology to Murray State University's Bachelor of Science in Applied Engineering/Manufacturing and Industrial Systems Track

Overview

Completion of the following curriculum will satisfy the requirements for Associate in Applied Sciences in Electrical Technology at the Kentucky Community and Technical College System and leads to the Bachelor of Science in Applied Engineering/Manufacturing and Industrial Systems at Murray State University. This agreement includes the general Electrical Technology AAS degree, the Automated Industrial Controls Technician, the Construction Electrician, the Industrial Automation and Process Control Technician, the Industrial Automation and Robotics Technician, and the Industrial Electrician tracks.

Admission Requirements

Murray State University admission requirements for domestic first-time transfer students can be found online [here](#).

Degree Requirements

At least 42 semester hours of the 120 hours required for a baccalaureate degree must be earned in courses at the 300-level or above (upper-level courses). Transfer courses at the 100- or 200-level that are direct equivalents of upper-level Murray State courses will be considered upper-level credit. Transfer courses at the 100- or 200-level that may be substituted for upper-level Murray State courses or requirements will not be considered upper-level credit.

The baccalaureate degree candidate must have a GPA of at least 2.00: (1) in all credits presented for graduation whether earned at Murray State or elsewhere (cumulative GPA); (2) in all credits completed at Murray State; and (3) in the courses for each major, minor or area.

General Transfer Requirements

Students can apply for Murray State online here: <https://www.murraystate.edu/admissions/apply.aspx>. Transfer requirements, scholarship information, and other relevant transfer information can also be found at www.murraystate.edu/admissions/transfer. Once the student has been accepted at Murray State and they receive their student ID (M#), they can apply for scholarships within our student portal, MyGate.

For specific questions concerning the transfer, students can contact the Transfer Center at (270)-809-3350 or msu.transfercenter@murraystate.edu.

A list of Murray State's General Education courses can be found here: <https://www.murraystate.edu/academics/UniversityStudies/courses.aspx>

The general University Scholarship application is due on or before February 5th before the Fall semester entry. All students must complete the FAFSA to be eligible for scholarships.

KCTCS AAS in Electrical Technology/Automated Industrial Controls Technician Track TO Murray State University's Bachelor of Science in Applied Engineering/Manufacturing and Industrial Systems Track CHECKLIST

Kentucky Community and Technical College System

Category 1: KCTCS General Education Requirements

KCTCS Course	Course or Category	Credits	Murray State Course	Completed
ENG 101	Writing I	3	ENG 101	
PHY 151 & PHY 161	Introductory Physics I & Lab	4	PHY 130 & PHY 131	
TBS XXX	Social & Behavioral Sciences	3	TBD XXX	
TBS XXX	Heritage/Humanities	3	TBD XXX	
MAT 171 OR MAT 150 OR STA 220	Technical Math I OR College Algebra OR Statistics	5 OR 3 OR 3	MAT 130 OR MAT 140 OR STA 135	
Subtotal General Education Courses		16-18		

	<i>For full Gen Ed Certification:</i>			
ENG 102	Writing II	3	ENG 105 (w/ ENG 101)	
TBS XXX	Arts & Humanities: Humanities	3	TBD XXX	
TBS XXX	Social & Behavioral Electives	6	TBD XXX	
	Subtotal General Education Courses	30-32		

* Both of these are required for the Murray State University degree; the one not completed at KCTCS, must be taken at Murray State University.

TBS XXX means to be selected by KCTCS student.

TBD XXX means to be determined by Murray State University based on course selected.

Category 2: KCTCS AAS Technical Core and Track Requirements

KCTCS Course	Course or Category	Credits	Murray State Course	Completed
TBS XXX	Digital Literacy	0-3	TBD XXX	
EET 119 OR ELT 110	Basic Electricity OR Circuits I	5	EMT 110	
EET 250	National Electrical Code	4	Technical Elective	
EET 270 Or EET 268 Or EET 274	Electrical Motor Controls I OR Rotating Machinery Electrical Motor Controls 1 OR Electric Motor Controls	2	EMT 305	
EET 271 Or EET 269 Or EET 275	Electrical Motor Controls I Lab OR Rot. Mach. Electrical Motor Controls 1 Lab OR Electric Motor Controls Lab	2		
EET 264	Rotating Machinery	2	Technical Elective	
EET 265	Rotating Machinery Lab	2	Technical Elective	
EET 272	Electrical Motor Controls II	2	Technical Elective	
EET 273	Electrical Motor Controls II Lab	2	Technical Elective	
EET 276	Programmable Logic Controllers	2	EMT 310	
EET 277	Programmable Logic Controllers Lab	2		
ELT 265 OR FPX 100 & FPX101	Applied Fluid Power OR Fluid Power & Fluid Power Lab	3 OR 4	EMT 261 & EMT 262	
ELT 114	Circuits II	5	DET 130	
TBS XXX	Technical Electives		DET 204	
	Subtotal AAS Requirement Courses	44-48		
	TOTAL Associate Degree Hours	60-66		

** Students must demonstrate computer/digital literacy skills, either through completing a course or passing a test.

TBS XXX means to be selected by KCTCS student.

TBD XXX means to be determined by Murray State University based on course selected.

Murray State University

Major Requirements for Bachelor of Science in Applied Engineering/Manufacturing and Industrial Systems Track

Murray State Course	Course	Credits	KCTCS Course	Taken at KCTCS
ENT 100T*	Transitions	1		
EMT 351	Power Distribution	3		
EMT 455	Industrial Networking Systems	4		
SOE 399	Professional Development Seminar I	1		
SOE 488	Cooperative Education/Internship	1-3		
MET 310	Manufacturing Analysis	3		
MET 320	Manufacturing Control Systems	4		
MET 322	Plastics Manufacturing	3		
MET 400	Lean Manufacturing Systems	3		
MET 410	Sustainability Management	3		
MET 440	Quality Management Systems	3		
MET 450	Systems Project Management	3		
	Upper-Level Technical Electives	3		
Select the course that wasn't completed at KCTCS				
STA 135**	Introduction to Probability and Statistics**	4*	STA 220**	
MAT 130**	Technical Math**	5*	MAT 171**	
OR	OR	OR	OR	
MAT 140**	College Algebra**	4*	MAT 150**	
Subtotal Murray State Credit Hours		56-59		
Additional credits to Degree		1-4		
Total Baccalaureate Degree Credit Hours		120		

* Transitions courses are waived for students who transfer 36 hours or more to Murray State University.

** The student must complete this course at MSU only if it was not taken at KCTCS as the Quantitative Reasoning Gen Ed requirement. Updated: July 29, 2026