TRANSFER PATHWAY GUIDE

FOR

Associate in Applied Science in Advanced Integrated Technology to Murray State University's Bachelor's of Science in Manufacturing Engineering Technology

Overview

Completion of the following curriculum will satisfy the requirements for the Associate in Applied Science Advanced Integrated Technology (AIT) at the Kentucky Community and Technical College System and leads to the Bachelor's of Science in Manufacturing Engineering Technology (MET) at Murray State University. Students completing their AAS in AIT with KCTCS can complete their MET degree at Murray State 100% online.

Admission Requirements

Murray State University admission requirements for domestic first-time transfer students can be found online. Current link is available [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).

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 Jake Hildebrant @ jhildebrant@murraystate.edu

A list of Murray State's General Education courses can be found here: https://www.murraystate.edu/academics/UniversityStudies/current/UniversityStudiesCourses.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 Advanced Integrated Technology AAS TO Murray State University's Bachelor's of Science in Manufacturing Engineering Technology CHECKLIST

Kentucky Community and Technical College System

Category 1: KCTCS General Education Requirements (15-33 hours)

KCTCS Course	Course or Category	Credits	Murray State Course	Completed
ENG 101	Writing 1	3		
MAT 150	College Algebra	3	MAT 140	
EITHER: PHY 151 & 161 *OR* PHY 171	Intro to Physics 1 **and** Intro to Physics 1 Lab Applied Physics	4	PHY 130 & 131 *OR* PHY 121 & 122	
TBS XXX	*Social & Behavioral*	3	TBD XXX	
TBS XXX	*Heritage or Humanities*	3	TBD XXX	
Subtotal - Minimum General Education Reqs for AAS		**16**		
For full Category Certification: Students may wish to pursue full category certification at KCTCS. Please complete the additional courses listed below to complete general education certification prior to transfer.				
ENG 102	Writing II	3	ENG 105 (w/101)	
TBS XXX	*Heritage or Humanities* (whichever not taken above)	3	TBD XXX	
TBS XXX	*Social & Behavioral*	3	TBD XXX	
TBS XXX	*Social & Behavioral*	3	TBD XXX	
TBS XXX	*Oral Communication*	3	TBD XXX	
STA 220	Statistics	3	STA 135	
Subtotal General Education Courses		**34**		

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 Requirements

A completed AAS degree in Advanced Integrated Technology will give students the following block transfer of classes at Murray State University in the Manufacturing Engineering Technology program.

KCTCS Course	Course or Category	Credits	Murray State Course	Completed
DIL XXX	Digital Literacy**	0-3		
AIT 100(1-3)	Power Generation and Utilization	4	EMT 110 EMT 261 [8]	
AIT 110(1-3)	Power Distribution Systems	3	EMT 262	
AIT 120(1-3)	Equipment Installation	3	DET 130 [3]	
AIT 130(1-2)	Measurement and Instrumentation	4	EMT 312* [4]	
AIT 1401	Industrial Controls I	2	EMT 305 [4]	
AIT 1501	Industrial Controlls II	2		
AIT 1402	Basic Pneumatic Controls	1	TBD XXX [2]	
AIT 1403	Basic Hydraulic Controls	1		
AIT 1502	Intermediate Pneumatic Controls	1	TBD XXX [2]	
AIT 1503	Intermediate Hydraulic Controls	1		
AIT 210	Advanced Equipment Maintenance	4	DET 330 [4]	
AIT 270	Introduction to Robotics & Programmable Logic Controllers	2	TBD XXX [2]	
	Advanced Integrated Tech Electives, including:			
AET 190	Applied Engineering Technology	4	EMT 310 [4]	
TBS XXX	*Electives*	12	TBD XXX *Often: DET 102 DET 204 [10] TBD XXX*	
Subtotal AAS Requirement Courses		**44**		

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

Murray State Univesity

Major Requirements for the Bachelor of Science in Manufacturing Engineering Technology after the student completes the AAS in Advnaced Integrated Technology

Murray State Course	Course	Credits	KCTCS Course	Taken at KCTCS
ENT 100T**	Transitions	1		
MET 322	Plastics Manufacturing	3		
EMT 351	Power Distribution	3		
MET 310	Manufacturing Analysis	3		
MET 320	Manufacturing Control Systems	4		
MET 400	Lean Manufacturing	3		
MET 410	Sustainability Management	3		
MET 420	Manufacturing Material Science	3		
MET 440	Quality Systems Management	3		
MET 450	Project Management	3		
SOE 350	Management of Technology	3		
SOE 399	Professional Dev Seminar	1		
SOE 488	Cooperative Ed/Internship	1		
	Electives – Note 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).	9		
	Any University Studies Courses Remaining If not transferring with full General Education Certification	0-18		
Subtotal Murray State Credit Hours		43 - 60		
Total Baccalaureate Degree Credit Hours		122		

** Transitions courses are waived for students who transfer 30 hours of more to Murray State University.

Updated: 01/18/2024