WEST KENTUCKY COMMUNITY AND TECHNICAL COLLEGE

Academic Plan

MANUFACTURING INDUSTRIAL TECHNOLOGY
Associate in Applied Science
Industrial Maintenance Technology
Degree

Academic Plan Code **4703037019**

Contact Information: Tim Driver
tim.driver@kctcs.edu 270-534-3433

Student Name Student ID#

Course	Hours	Grade	Semester
GENERAL EDUCATION			
ENG 101 Writing I	3		
MAT 116 Technical Mathematics OR Higher	3		
Natural Sciences	3		
Heritage/Humanities	3		
Social/Behavioral Sciences	3		
Oral Communications	3		
Subtotal	**18**		
TECHNICAL CORE			
Digital Literacy	3		
BRX 120 Basic Blueprint Reading OR	3		
BRX 110 Basic Blueprint Reading for Machinist	(2)		
FPX 100 Fluid Power AND	3		
FPX 101 Fluid Power Lab OR	2		
ELT 265 Applied Fluid Power	(3)		
IMT 110 Industrial Maintenance Electrical Principles AND	3		
IMT 111 Industrial Maintenance Electrical Principles OR	2		
ELT 110 Circuits I OR	(5)		
EET 119 Basic Electricity	(5)		
IMT 150 Maintaining Industrial Equipment I	3		
IMT 151 Maintaining Industrial Equipment I Lab	2		
IMT 220 Industrial Maintenance Electrical Motor Controls I AND	3		
IMT 221 Industrial Maintenance Electrical Motor Controls I Lab OR	2		
EET 270 Electrical Motor Controls I AND	(2)		
EET 271 Electrical Motor Controls I Lab OR	(2)		
EET 264 Rotating Machinery AND	(2)		
EET 265 Rotating Machinery Lab	(2)		
WLD 120 Shielded Metal Arc Welding AND	2		
WLD 121 Shielded Metal Arc Welding Fillet Lab OR	3		
WLD 140 Gas Metal Arc Welding AND	(2)		
WLD 141 Gas Metal Arc Welding Fillet Lab OR	(3)		
WLD 152 Basic Welding B	(5)		
IMT 289 Industrial Maintenance Technology Capstone	1		
Subtotal	**28-32**		
TECHNICAL ELECTIVES			
Eighteen (18) credit hours of electives must be taken from the approved list. This list is not all inclusive. Other technical elective courses may be taken with approval of the program instructor/advisor.	18		
Total Credits	**64-68**		

Revised Date: 8/31/2017

KENTUCKY COMMUNITY & TECHNICAL COLLEGE SYSTEM
KCTCS is an equal opportunity employer and educational institution.

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First Semester		
Course No.	Course Title	Credit Hours
MAT 116	Technical Mathematics OR Higher	3
IMT 110	Industrial Maintenance Electrical Principles AND	3
IMT 111	Industrial Maintenance Electrical Principles Lab OR	2
ELT 110	Circuits I OR	(5)
EET 119	Basic Electricity	(5)
IMT 150	Maintaining Industrial Equipment I AND	3
IMT 151	Maintaining Industrial Equipment I Lab	2
	Digital Literacy (Recommend CAD 103 CAD Fundamentals, Extra hour counts in Technical Electives)	3 - (4)
	Subtotal	**16 - (17)**
Second Semester		
Course No.	Course Title	Credit Hours
ENG 101	Writing I	3
FPX 100	Fluid Power AND	3
FPX 101	Fluid Power Lab OR	2
ELT 265	Applied Fluid Power	(3)
IMT 220	Industrial Maintenance Electrical Motor Controls I AND	3
IMT 220	Industrial Maintenance Electrical Motor Controls I Lab OR	2
EET 270	Electrical Motor Controls I AND	(2)
EET 271	Electrical Motor Controls I Lab OR	(2)
	Technical Elective (Recommend IMT 200 Industrial Robotics and Robotic Maintenance)	4
	Subtotal	**14-17**
Third Semester		
Course No.	Course Title	Credit Hours
	Heritage/Humanities	3
	Oral Communications	3
WLD 120	Shielded Metal Arc Welding AND	2
WLD 121	Shielded Metal Arc Welding Fillet Lab OR	3
WLD 140	Gas Metal Arc Welding AND	(2)
WLD 141	Gas Metal Arc Welding Fillet Lab OR	(3)
WLD 152	Basic Welding B	(5)
	Technical Elective (Recommend ISX 101 Introduction to Industrial Safety OR IMT 280 Advanced Programmable Logic Controllers and IMT 281 Advanced Programmable Logic Controllers Lab)	6-7
	Subtotal	**17-18**

WKCTC curriculum guides only include courses offered at WKCTC. Please refer to the KCTCS Catalog for a complete list of courses accepted for this credential.

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Fourth Semester		
Course No.	Course Title	Credit Hours
BRX 120 BRX 112	Basic Blueprint Reading OR BRX 112 Blueprint Reading for Machinists	3 (4)
IMT 289	Industrial Maintenance Technology Capstone	1
	Social/Behavioral Sciences	3
	Natural Sciences (Recommend PHY 151 Introductory Physics I OR PHY 171 Applied Physics)	3
	Technical Electives (Recommend CMM 114 Fundamentals of Machine Tool)	7
	Subtotal	**17**
	Grand Total	**64-68**

Program Coordinator Notes: Progression in the Industrial Maintenance Technology program is contingent upon achievement of a grade of "C" or better in all courses and maintenance of a 2.0 cumulative grade point average or better (on a 4.0 scale). WKCTC curriculum guides only include courses offered at WKCTC. Please refer to the KCTCS catalog for a complete list of courses accepted for this credential. It is the ultimate responsibility of the student to stay current with the curriculum requirements.

Eighteen (18) credit hours of electives must be taken from the approved list. This list is not all inclusive. Other technical elective courses may be taken with approval of the program instructor/advisor.

Course No.	Course Title	Credits
ACR 100	Refrigeration Fundamentals	(3)
ACR 101	Refrigeration Fundamentals Lab	(2)
ACR 250	Cooling and Dehumidification	(3)
ACR 251	Cooling and Dehumidification Lab	(2)
ACR 260	Heating and Humidification	(3)
ACR 261	Heating and Humidification Lab	(2)
CAD 100	Introduction to Computer Aided Design (If CAD 103 was not taken for Digital Literacy)	(3)
CMM 110	Fundamentals of Machine Tools - A	(3)
CMM 112	Fundamentals of Machine Tools - B	(4)
CMM 114	Fundamentals of Machine Tool	(7)
CMM 124	Applied Machining	(6)
CMM 224	Advanced Industrial Machining	(6)
EET 254	Electrical Construction	(3)
EET 255	Electrical Construction Lab	(4)
EET 264	Rotating Machinery	(2)
EET 265	Rotating Machinery Lab	(2)
EET 276	Programmable Logic Controllers	(2)
EET 277	Programmable Logic Controllers Lab	(2)
IMT 198	Practicum	(1-8)
IMT 199	Cooperative Education	(1-8)
IMT 200	Industrial Robotics and Robotic Maintenance	(4)
IMT 290	Special Problems	(1)
ISX 101	Introduction to Industrial Safety	(3)
PHX 150	Introductory Physics	(3)
WLD 123	Shielded Metal Arc Welding Groove Weld	(3)
WLD 151	Basic Welding A	(2)