AUTOMATION, INDUSTRIAL, AND ROBOTICS, TECHNOLOGY - AAS

Offered at: Elizabethtown Community and Technical College

Program Plan Number: 1504037079

Course	Title	Credits
General Education		
ENG 101	Writing I	3
Please select 3 credit hours from the following math course options:		3
MAT 116	Technical Mathematics	
MAT 126	Technical Algebra and Trigonometry	
MAT 150	College Algebra	
MAT 155	Trigonometry	
MAT 171	Precalculus	
MAT 174	Calculus I	
MAT 175	Calculus I	
Heritage/Humanities		3
Natural Science		3
Social/Behavioral Science		3
General Education Subtotal		15
Technical Core		
CAD 100	Introduction to Computer Aided Design	3
EET 100	Electrical Safety in the Workplace	3
ELT 115	Basic Digital and Devices	4
EET 119	Basic Electricity	5
EET 248	Motor Controls I	4
EET 249	Rotating Machinery	4
EET 288	Programmable Logic Controllers I	4
Technical Core Subtotal		27
Total Credits		**42**

Students must complete one of the tracks listed below to complete the AAS requirements.

Automation and Robotics Specialization Track

This program is not currently offered at a KCTCS College.
Program Plan Number: undefined

Course	Title	Credits
General Education and Technical Core Subtotal		42
EET 202	Robotic Maintenance	2
EET 203	Robotic Vision Systems	2
EET 259	Motor Controls II	4
EET 280	Multi-Platform Programmable Logic Controllers	4
EET 290	Troubleshooting Industrial Controls and Motors	4
ELT 260	Robotic and Industrial Automation	5
ELT 265	Applied Fluid Power	3
Total Credits		**66**

Instrumentation and Process Control Technician Track

This program is not currently offered at a KCTCS College.
Program Plan Number: undefined

Course	Title	Credits
General Education and Technical Core Subtotal		42
ISM 102	Fundamentals of Instrumentation	4
ISM 210	Fundamentals of Process Control	4
EET 259	Motor Controls II	4
EET 280	Multi-Platform Programmable Logic Controllers	4
EET 290	Troubleshooting Industrial Controls and Motors	4
ELT 265	Applied Fluid Power	3
Total Credits		**65**

Manufacturing Maintenance Track

This program is not currently offered at a KCTCS College.
Program Plan Number: undefined

Course	Title	Credits
General Education and Technical Core Subtotal		42
BRX 120	Basic Blueprint Reading	3
CMM 110	Fundamentals of Machine Tools - A	3
EET 290	Troubleshooting Industrial Controls and Motors	4
ELT 265	Applied Fluid Power	3
IMT 100	Welding for Maintenance	3
IMT 101	Welding for Maintenance Lab	2
IMT 150	Maintaining Industrial Equipment I	3
IMT 151	Maintaining Industrial Equipment I Lab	2
Total Credits		**65**

Electronics Automation Technician Track

This program is not currently offered at a KCTCS College.
Program Plan Number: undefined

Course	Title	Credits
General Education and Technical Core Subtotal		42
ELT 114	Circuits II	5
ELT 214	Devices II	4
ELT 220	Digital II	3
ELT 240	Communications Electronics	6
ELT 249	Electronics Soldering	4
Total Credits		**64**

Mechatronics Specialization Track

This program is not currently offered at a KCTCS College.
Program Plan Number: undefined

Course	Title	Credits
General Education and Technical Core Subtotal		42
COM 181	Basic Public Speaking	3

ECO 201	Principles of Microeconomics	3
ENG 102	Writing II	3
EET 202	Robotic Maintenance	2
EET 203	Robotic Vision Systems	2
EET 280	Multi-Platform Programmable Logic Controllers	4
EET 290	Troubleshooting Industrial Controls and Motors	4
ELT 260	Robotic and Industrial Automation	5
Total Credits		**68**