PATHWAYS Your Guide to Completion

Industrial Systems Technology
Associate in Applied Science (AAS)

Semester #	Course #	Course Name	Semester Hours
Semester 1	ORT 100	Orientation for Career Success	1
	MTH 116 or Higher	Mathematical Applications or Higher	3
	INT 101 or ELT 108	DC Fundamentals	3
	CIS 146	Computer Applications	3
	INT 134 or WDT 107	Principles of Industrial Maintenance Welding and Metal Cutting Techniques	3
			Semester Total: 13
Semester 2	ENG 101	English Composition I	3
	INT 103 or ELT 109	AC Fundamentals	3
	INT 119	Principles of Mechanical Measurement and Technical Drawing	3
	INT 123	Concepts of Solid State Electronics	3
	INT 132	Preventive and Predictive Maintenance	3
			Semester Total: 15
Semester 3	INT 113 or ELT 209	Industrial Motor Control I	3
	INT 117	Principles of Industrial Mechanics	3
	INT 118	Fundamentals of Industrial Hydraulics and Pneumatics	3
		Humanities/Fine Arts Elective	3
		Speech	3
			Semester Total: 15
Semester 4	INT 105	Introduction to Process Technology	3
	INT 184 or ELT 231	Introduction to Programmable Logic Controllers (PLC's)	3
	INT 213 or ELT 212	Industrial Motor Control II	3
	PHS 112	Physical Science II	4
			Semester Total: 13
Semester 5	INT 139	Introduction to Robot Programming	3
	INT 208	Advanced Process Simulation	3
	INT 284	Advanced Programmable Logic Controllers	3
	PSY 200	General Psycology	3
		ELIGIBLE FOR: • AAS – Industrial Systems Technology	Semester Total: 12 Program Total: 68

NOTE: The Guided Pathway provided above includes all the necessary coursework for degree/certificate fulfillment. However, courses can be offered or taken in alternate semesters, provided that prerequisites are fulfilled. Courses may be scheduled during daytime, evening, hybrid, or online sessions. For specific course requirements, consult the ALABAMA TRANSFERS (STARS) guide or contact the transfer institution.

PATHWAYS Your Guide to Completion

FAME-ADVANCED MANUFACTURING
Associate in Applied Science (AAS)

Semester #	Course #	Course Name	Semester Hours
Semester 1	ORT 100	Orientation for Career Success	1
	INT 140	MCE-1 Safety Culture (Project)	1
	INT 101	DC Fundamentals	3
	INT 129	Industrial Safety and Maintenance Techniques (OSHA 10)	3
	INT 119	Principles of Mechanical Measurement and Technical Drawing (Covers blueprint reading)	3
	ENG 101	English Composition I	3
			Semester Total: 14
Semester 2	INT 142	MCE-2 (5s) - (Project)	1
	INT 103	AC Fundamentals	3
	INT 113	Industrial Motor Control I	3
	INT 117	Principles of Industrial Mechanics	3
	INT 118	Fundamentals of Industrial Hydraulics and Pneumatics	3
			Semester Total: 13
Semester 3	INT 144	MCE-3 (TPS-M) - (Project)	1
	INT 208	Advanced Process Simulation	3
	INT 127	Principles of Industrial Pumps and Piping Systems	3
	INT 213	Industrial Motor Control II	3
	PHS 112	Physical Science II	4
			Semester Total: 14
Semester 4	INT 146	MCE-4 Problem Solving- (Project)	1
	INT 132	Preventative and Predictive Maintenance	3
	ELT 117	AC/DC Machines	3
	INT 184	Introduction to Programmable Logic Controllers	3
	INT 139	Introduction to Robotic Programming	3
	MTH 116 or Higher	Mathematical Applications or Higher	3
			Semester Total: 16
Semester 5	INT 148	MCE-5 Maintenance Reliability- (Project)	1
	WDT 107	SMAW Fillet/OFC/PAC/CAC	3
	INT 253	Industrial Robotics Concepts	3
	INT 284	Advanced Programmable Logic Controllers	3
	AREA IV	History, Social and Behavioral Sciences Elective	3
		ELIGIBLE FOR: • AAS – Advanced Manufacturing	Semester Total: 13 Program Total: 70

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PATHWAYS Your Guide to Completion

Industrial Systems Technology Short Term Certificate (STC)			
Semester #	**Course #**	**Course Name**	**Semester Hours**
Semester 1	INT 101 or ELT 108	DC Fundamentals	3
	INT 113 or ELT 209	Industrial Motor Control I	3
	INT 184 or ELT 231	Introduction to Programmable Logic Controllers (PLC's)	3
	INT 119	Principles of Mechanical Measurement and Technical Drawing	3
			Semester Total: 12
Semester 2	INT 103 or ELT 109	AC Fundamentals	3
	INT 118	Fundamentals of Industrial Hydraulics and Pneumatics	3
	INT 213 or ELT 212	Industrial Motor Control II	3
	INT 284	Advanced Programmable Logic Controllers	3
			Semester Total: 12
		ELIGIBLE FOR: • STC – Industrial Systems Technology	Program Total: 24

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