

Industrial Systems Technology – FAME Advanced Manufacturing Associate in Applied Science (AAS)

Semester #	Course #	Course Name	Semester Hours
Semester 1	ENG 101	English Composition I	3
	INT 101	DC Fundamentals	3
	INT 119	Principles of Mechanical Measurement and Technical Drawing	3
	INT 129	Industrial Safety and Maintenance Techniques	3
	INT 140	F.A.M.E. Manufacturing Core Exercise 1, Safety Culture	1
	ORT 100	Orientation for Career Students	1
Semester 2	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
	INT 142	F.A.M.E. Manufacturing Core Exercise 2, Workplace Visual Organization	1
Semester 3	ELT 117	AC/DC Machines	3
	INT 208	Advanced Process Simulation	3
	INT 213	Industrial Motor Control II	3
	INT 144	F.A.M.E. manufacturing Core Exercise 3, Lean Manufacturing	1
	MTH 116	Mathematical Applications	3
Semester 4	INT 127	Principles of Industrial Pumps and Piping Systems	3
	INT 132	Preventive and Predictive Maintenance	3
	INT 139	Introduction to Robot Programming	3
	INT 146	F.A.M.E. Manufacturing Core Exercise 4, Problem-Solving	1
	INT 184	Introduction to Programmable Logic Controllers (PLC's)	3
	PHS 112	Physical Science II	4
Semester 5	INT 148	F.A.M.E. Manufacturing Core Exercise 5, Machine Reliability	1
	INT 253	Industrial Robotics	3
	INT 284	Advanced programmable Logic Controllers (PLC's)	3
	WDT 107	SMAW Fillet/OFC/PAC/CAC	3
		History, Social and Behavioral Sciences Elective	3
ELIGIBLE FOR: <ul style="list-style-type: none"> • AAS – Advanced Manufacturing 			Semester Total: 13 Program Total: 70

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.