

<b>Industrial Systems Technology: FAME – Advanced Manufacturing Associate of Science Degree</b>			
	Course #	Course Name	Credit Hours
Semester 1	ENG101	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
			<b>Semester Total: 14</b>
Semester 2	INT 103	AC Fundamentals	3
	INT 113	Industrial Motor Control I	3
	INT 117	Principles of Industrial Mechanics	3
	INT 142	F.A.M.E. Manufacturing Core Exercise 2, Workplace Visual Organizations (5S)	1
	MTH 116	Mathematical Applications	3
			<b>Semester Total: 13</b>
Semester 3	ELT 117	AC/DC Machines	3
	INT 127	Principles of Industrial Pumps and Piping Systems	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
			<b>Semester Total: 13</b>
Semester 4	INT 146	F.A.M.E. Manufacturing Core Exercise 4, Problem Solving	1
	INT 118	Fundamentals of Industrial Hydraulics and Pneumatics	3

	INT 132	Preventative and Predictive Maintenance	3
	INT 184	Introduction to Programmable Logic Controllers (PLC's)	3
	INT 139	Introduction to Robot Programming	3
	PHS 112	Physical Science II	3
			<b>Semester Total: 17</b>
Semester 5	INT 148	F.A.M.E. Manufacturing Core Exercise 5, Machine Reliability	1
	WDT 107	SMAW Fillet/OFC/PAC/CAC	3
	INT 253	Industrial Robotics	3
	INT 284	Advanced Programmable Logic Controllers (PLC's)	3
		History, Social, and Behavioral Sciences Elective	3
			<b>Semester Total: 13</b>
			<b>Program Total: 70</b>

**NOTE:** This Guided Pathway contains all the coursework required for degree/certificate completion. However, courses may be offered or taken in other semesters as long as prerequisites are met. Courses may be available days, nights, hybrid, and online.