APPLIED ENGINEERING – AAS (Revised Fall 2019)

Guided Pathway/Map

NOTE: The Guided Pathway below contain 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.

	Course #	Course Name	Sem. Hours
Semester 1	ORI 101 ORI105	College Orientation OR Orientation to Student Success	1 – 3
	MTH100	Intermediate College Algebra	3
	CIS146	Microcomputer Applications	3
	INT107	Fundamentals of Electricity	3
	INT261	MSSC Safety (**MSCC Safety Exam**)	3
			Semester Total:13 - 15
Semester 2	ENG101	English Composition I	3
	INT100	Mathematics for Industrial Technician	3
	INT262	MSSC Quality Practices and Measurement (**MSCC Quality Practices and Measurement Exam)**	3
	INT263	MSSC Manufacturing Processes and Production (**MSCC Manufacturing Processes and Production Exam**)	3
	INT264	MSSC Maintenance Awareness (**MSSC Maintenance Awareness Exam**)	3
		ELIGIBLE FOR STACKABLE STC – Manufacturing Production Technician **ELIGIBLE for MSCC Certified Production Technician credential (must pass all 4 MSCC CPT course certification exams)** **ELIGIBLE FOR STC - MSCC CERTIFIED PRODUCTION TECHNICIAN (required courses)** **TOTAL HOURS FOR STC - 12**	Semester Total: 15
Semester 3	SPH106 SPH107	Fundamentals of Oral Communication OR Fundamentals of Public Speaking	3
	INT117	Principles of Industrial Mechanics	3
	INT118	Fundamentals of Industrial Hydraulics and Pneumatics	3
	INT113	Industrial Control I	3
	Area II	Humanities/Fine Arts Elective	3
		ELIGIBLE FOR STACKABLE STC **Basic Industrial Technician**	Semester Total: 15
Semester 4	INT105	Introduction to Process Technology	3
	INT184	Introduction to Programmable Logic Controllers	3
	INT213	Industrial Motor Control II	3
	PHS112	Physical Science II	4
		ELIGIBLE FOR STACKABLE STC **Basic Motor Control Technician**	Semester Total: 13

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Semester 5	PSY200	General Psychology	3
	INT284	Advanced Programmable Logic Controllers	3
	INT139	Introduction to Robot Programming	3
	INT208	Advanced Process Simulation	3
	INT296	Co-op	1
	ORI104	Work Keys Assessment and Advisement	1
	WKO106	Workplace Skills	3
		ELIGIBLE FOR STACKABLE STC – Basic PLC Technician **ELIGIBLE FOR AAS IN APPLIED ENGINEERING TECHNOLOGY**	Semester Total: 17
			Program Total: 73-75