

APPLIED ENGINEERING – AAS (Revised Fall 2020)

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
	INT101	DC Fundamentals	3
	INT261	MSSC Safety (MSSC Safety Exam)	3
			Semester Total:13 - 15
Semester 2	ENG101	English Composition I	3
	INT103	AC Fundamentals	3
	INT262	MSSC Quality Practices and Measurement (MSSC Quality Practices and Measurement Exam)	3
	INT263	MSSC Manufacturing Processes and Production (MSSC Manufacturing Processes and Production Exam)	3
	INT264	MSSC Maintenance Awareness (MSSC Maintenance Awareness Exam)	3
		ELIGIBLE FOR STACKABLE STC – Manufacturing Production Technician ELIGIBLE for MSSC Certified Production Technician credential (must pass all 4 MSSC CPT course certification exams) ELIGIBLE FOR STC - MSSC 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

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	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
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
	WKO106	Workplace Skills	3
		ELIGIBLE FOR STACKABLE STC – Basic PLC Technician ELIGIBLE FOR AAS IN APPLIED ENGINEERING TECHNOLOGY	Semester Total: 16
			Program Total: 72-74