Sample INT (Electrical and Instrumentation) Stackable Certificate-Degree/Credential Program

Industrial Systems Technology – Electrical and Instrumentation

The Industrial Systems Technology – Electrical and Instrumentation option prepares students to work in industry as an electrical technician. Students will earn industry certifications and certificates throughout their college career, and will participate in a required cooperative education experience during their last semester.

Program Requirements

	Course #	Course Name	Sem. Hours
Semester 1	ILT 160	DC Fundamentals *(ETA DC EM1 Exam)*	3
	ILT 161	AC Fundamentals *(ETA AC EM2 Exam)*	3
	INT 117	Principles of Industrial Mechanics	3
	MTH 100	MTH 100 or numerically higher	3
Semester 2	ILT 197	Motor Controls	3
	INT 119	Principles of Mechanical Measurement and Technical Drawing	3
	SPH 107	Fundamentals of Public Speaking	3
	CIS 146	Microcomputer Applications	3
	ENG 101	English Composition I	3
		Eligible for Short Term Certificate (STC) – Industrial Systems Technology – Electrical & Instrumentation	
Semester 3	ILT 163	Digital Electronics *(ETA Digital EM4 Exam)*	3
	ILT 166	Motors & Transformers	3
	ILT 194	Programmable Logic Controls	3
	Area III	Math, Science or Computer Science elective	3
		Eligible for Short Term Certificate (STC) – Industrial Electronics	
Semester 4	ILT 118	Construction Wiring NEC	3
	INT 118	Fundamentals of Industrial Hydraulics and Pneumatics	3
	INT 220	Special Topics – Capstone Course	3
	WKO 106	Workplace Essentials *(Alabama Career Readiness Certificate) (OSHA 10 Hour Card)*	3
		Eligible for Certificate (CER) – Industrial Systems Technology – Electrical & Instrumentation	
Semester 5	INT 291	Cooperative Education	3
	Area IV	Social and Behavioral Science elective	3
	ILT 108	Introduction to Instrumentation & Process Control	3
	Area II	Humanities & Fine Arts Elective	3
		Eligible for AAS in Industrial Systems Technology – E&I	
		Total Hours Required for Degree	63