Sample ILT Stackable Certificate-Degree/Credential Program

Industrial Electronics Program

The Industrial Electronics program is industry-driven and focused on preparing graduates for the workforce. Students receive the opportunity for certifications by the Electronics Technicians Association, International (ETA) after completion of the first, second and third semesters. At the end of the final semester, students take the final ETA exam to become certified as an Associate Electronics Technician. The required co-op in the final term provides real world experience so that students graduate with the skills they need to perform.

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
	ILT 109	Blueprint Reading	3
	MTH 100	MTH 100 or numerically higher	3
		Eligible for Short Term Certificate (STC) – Industrial Electronics	
Semester 2	ILT 197	Motor Controls	3
	ILT 162	Solid State Electronics *(ETA Analog EM3 Exam)*	3
	SPH 107	Fundamentals of Public Speaking	3
	CIS 146	Microcomputer Applications	3
		Eligible for Short Term Certificate (STC) – Industrial Electronics	
Semester 3	ILT 163	Digital Electronics *(ETA Digital EM4 Exam)*	3
	ILT 166	Motors & Transformers	3
	ILT 194	Programmable Logic Controls	3
	ENG 101	English Composition I	3
	Area III	Math, Science or Computer Science elective	3
		Eligible for Short Term Certificate (STC) – Industrial Electrical Technician	
Semester 4	ILT 195	Troubleshooting Techniques	3
	ILT 276	Advanced Industrial Controls (PLCs)	3
	ILT 277	Advanced Industrial Controls (PLCs) Lab	2
	Area IV	Social and Behavioral Science elective	3
	WKO 106	Workplace Essentials *(Alabama Career Readiness Certificate) (OSHA 10 Hour Card)*	3
		Eligible for Certificate (CER) – Industrial Control Technician	
Semester 5	ILT 192	Co-op in Industrial Electronics *(ETA Comprehensive EM5 Exam)*	3
	ILT 216	Industrial Robotics	3
	ILT 217	Industrial Robotics Lab	2
	ILT 108	Introduction to Instrumentation & Process Control	3
	Area II	Humanities & Fine Arts Elective	3
		Eligible for AAS in Industrial Electronics	
		Total Hours Required for Degree	67