ELECTRONICS TECHNOLOGY
Night Rotation
Degree Program

Career Curriculum 00ELT3010
Associate in Applied Science
Minimum Hrs. 66
Major Code: 1.2 150303C

FIRST YEAR – FALL SEMESTER

Dept.	No.		Hrs.	Gr.
ELT	102	Basic Electricity and Wiring	4	____
ELT	111	Digital Electronics I	3	____
MAT	113	Introduction to Contemporary Mathematics OR MAT 100 Mathematics for Applied Technologies OR MAT 120 Elementary Statistics	3	____
MFT	103	Industrial Robots and PLCs	3	____
			13	

FIRST YEAR – SPRING SEMESTER

Dept.	No.		Hrs.	Gr.
ELT	103	Applied DC/AC Circuits	4	____
ELT	112	Digital Electronics II	3	____
MFT	201	PLC Manufacturing Systems	3	____
SPE	115	Speech OR SPE 116 Interpersonal Communication	3	____
			13	

SECOND YEAR – FALL SEMESTER

Dept.	No.		Hrs.	Gr.
ELT	214	A+ Preparation IT Technician	3	____
ELT	215	IOT and Embedded Systems	3	____
ELT	270	Introduction to Smart Grid	3	____
PSC	131	American Government OR HIS 201 United States History I OR HIS 202 United States History II	3	____
			12	

SECOND YEAR – SPRING SEMESTER

Dept.	No.		Hrs.	Gr.
ELT	104	Introduction to VFDs	2	____
ELT	150	Applied Solid State Electronics	4	____
ELT	200	Introduction to Microprocessors	3	____
ELT	210	A+ Preparation Essentials	3	____
			12	

THIRD YEAR – FALL SEMESTER

Dept.	No.		Hrs.	Gr.
ELT	151	Applied Solid State Circuits	4	____
ENG	101	English Composition 1[1] OR ENG 113 Professional Technical Writing[1]	3	____
PHY	121	Technical Physics	3	____
			10	

THIRD YEAR – SPRING SEMESTER

Dept.	No.		Hrs.	Gr.
ELT	220	Linear Integrated Circuits	3	____
ELT	224	Power Distribution and Motors	3	____
			6	

[1] Requires a grade of "C" or higher.

Service Course: ELT 240 FCC General Class License Preparation. This course is designed to help prepare the student to take the General Radio Telephone Operator's Exam.

Fall only courses:		Spring only courses:	
ELT 102	ELT 236	ELT 103	ELT 210
ELT 111	ELT 151	ELT 104	ELT 224
ELT 214	ELT 270	ELT 150	MFT 201
	MFT 103		

The Electronics Technology AAS Degree (00ELT3010) is the parent program to:

- Computer Support and Networking (00ELT3015)
- Electrical Engineering Technology AAS Degree (ELT 3012)
- Industrial Maintenance Engineering AAS Degree (00ELT3012)

The minimum general education component for the Associate in Applied Science degree requires satisfactory completion of at least 15 semester credits of coursework distributed over the disciplines of Communications, Mathematics, Arts and Humanities, Physical and Life Sciences, and Social and Behavioral Sciences. The curriculum guide for each Associate in Applied Science degree program will spell out the course requirements or options available for satisfying the general education component. With appropriate justification and in consultation with your academic advisor, a request to substitute a course for one recommended in this guide may be granted with the appropriate approvals from the Department Chair, Dean for Instruction and Vice-President for Instruction. However, no substitutions are allowed in Groups I-III (General Education Component; GECC) of the curriculum guide (see the Associate in Applied Science general degree requirements worksheet in the John A. Logan College Catalog).

Students planning to transfer and pursue a baccalaureate degree should, when given a choice, enroll in the general education course that is IAI GECC approved and articulated with participating Illinois institutions.

John A. Logan College reserves the right to modify this curriculum guide as needed.
Please verify with your academic advisor the accuracy and time lines of this document.

Effective Date: Fall 2016

Additional Information: This two-year program is designed to provide a thorough understanding of DC/AC fundamentals, solid state electronics, digital electronics, microprocessor operations, and industrial electronics. Upon completion of this program, the student will be awarded an associate degree in electronics technology. For students entering the program with prior education or on-the-job experience, it is possible to test out of the basic courses. For additional information, students should see their advisor or the chairperson of the Division of Applied Technologies.

Because the electronics curriculum has been articulated with the College of Engineering and Technology at SIU, a graduate of this program has the option of seeking employment directly after graduation or transferring to SIU to pursue a B. S.

Career Opportunities: Entry-level position as an electronics technician.