



# Associate in Applied Science

## Toward a Degree in

# Electronics Technology

Career Curriculum 00ELT3010  
Minimum Hours: 65  
Major Code: 1.2 150303C  
Effective Date: Fall 2019

### FIRST YEAR – FALL SEMESTER

Dept.	No.		Hrs.	Grade
ORI	100	College 101	1	_____
ELT	102	Basic Electricity and Wiring	4	_____
ELT	111	Digital Electronics I	3	_____
MAT	113	OR MAT 112 Introduction to Contemporary Mathematics	3	_____
COM	115	Speech OR COM 116 Interpersonal Communication	3	_____
MFT	103	Industrial Robots and PLCs	3	_____
			<u>3</u>	
			17	

### FIRST YEAR – SPRING SEMESTER

Dept.	No.		Hrs.	Grade
ELT	103	Applied DC/AC Circuits	4	_____
ELT	104	Introduction to VFDs	2	_____
ELT	112	Digital Electronics II	3	_____
ELT	150	Applied Solid State Electronics	3	_____
MFT	201	PLC Manufacturing Systems	3	_____
			<u>3</u>	
			15	

### SECOND YEAR – FALL SEMESTER

Dept.	No.		Hrs.	Grade
ELT	151	Applied Solid State Circuits	3	_____
ELT	214	A+ Preparation IT Technician	3	_____
ELT	215	IOT and Embedded Systems	3	_____
ENG	101	English Composition I <sup>1</sup> OR ENG 113 Professional Technical Writing <sup>1</sup>	3	_____
PSC	131	American Government OR HIS 201 United States History I OR HIS 202 United States History II	3	_____
			<u>3</u>	
			15	

### SECOND YEAR – SPRING SEMESTER

Dept.	No.		Hrs.	Grade
ELT	218	Introduction to Network Technologies	3	_____
ELT	210	A+ Preparation Essentials	3	_____
ELT	200	Introduction to Microprocessors	3	_____
ELT	220	Linear Integrated Circuits	3	_____
ELT	224	Power Distribution and Motors	3	_____
PHY	121	Technical Physics	3	_____
			<u>3</u>	
			18	

### NOTES AND INFORMATION

<sup>1</sup> Requires a grade of "C" or higher.

<u>Fall only courses:</u>		<u>Spring only courses:</u>	
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)

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.

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.

**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:** The Electronics Technician has career opportunities in many entry-level areas such as: Electronic equipment installation and repair, Maintenance Technician, Broadcast Communications Technician, System Technician, Plant Technician, Telephone Technician, Fiber Optic Technician, Telecommunications Technician and Technical Report Writers. The typical job related activities may involve assembly, installation, maintenance, testing, troubleshooting and repair.

*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.*