



**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	3	___
SPE 115 Speech OR SPE 116 Interpersonal Communication	3	___
MFT 103 Industrial Robots and PLCs	<u>3</u>	___
	16	

**SECOND YEAR – FALL SEMESTER**

Dept. No.	Hrs.	Gr.
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	<u>3</u> 15	___

**FIRST YEAR – SPRING SEMESTER**

Dept. No.	Hrs.	Gr.
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	<u>3</u>	___
	15	

**SECOND YEAR – SPRING SEMESTER**

Dept. No.	Hrs.	Gr.
ELT 200 Introduction to Microprocessors	3	___
ELT 210 A+ Preparation Essentials	3	___
ELT 218 Introduction to Network Technologies	3	___
ELT 220 Linear Integrated Circuits	3	___
ELT 224 Power Distribution and Motors	3	___
PHY 121 Technical Physics	<u>3</u>	___
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<sup>1</sup> Requires a grade of “C” or higher.

Fall only courses:

ELT 102    ELT 236  
ELT 111    ELT 151  
ELT 214    MFT 103

Spring only courses:

ELT 103    ELT 210  
ELT 104    MFT 201  
ELT 150    ELT 224  
ELT 218

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.

*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 2017**

**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.