



**ELECTRONICS TECHNOLOGY
Degree Program**

Career Curriculum 00ELT3010
Associate in Applied Science
Minimum Hrs. 65
Major Code: 1.2 150303C

FIRST YEAR – FALL SEMESTER

Dept. No.	Hrs.	Gr.
ELT 102 Basic Electricity and Wiring	4	—
ELT 111 Digital Electronics	6	—
MAT 113 Introduction to Contemporary Mathematics OR MAT 106 Technical Mathematics OR MAT 120 Elementary Statistics	3-4	—
MFT 103 Industrial Robots and PLCs	<u>3</u>	—
	16-17	

FIRST YEAR – SPRING SEMESTER

Dept. No.	Hrs.	Gr.
ELT 103 Applied DC/AC Circuits	4	—
ELT 150 Applied Solid State Electronics	4	—
ELT 200 Introduction to Microprocessors	5	—
MFT 201 PLC Manufacturing Systems	<u>3</u>	—
	16	

SECOND YEAR – FALL SEMESTER

Dept. No.	Hrs.	Gr.
ELT 151 Applied Solid State Circuits	4	—
ELT 214 A+ Preparation IT Technician	3	—
ELT 236 Introduction to Fiber Optics	3	—
ENG 101 English Composition I ¹ OR ENG 113 Professional Technical Writing	3	—
PSC 131 American Government OR HIS 201 United States History I OR HIS 202 United States History II	<u>3</u> 16	—

SECOND YEAR – SPRING SEMESTER

Dept. No.	Hrs.	Gr.
ELT 210 A+ Preparation Essentials	3	—
ELT 220 Linear Integrated Circuits	5	—
ELT 224 Power Distribution and Motors	3	—
PHY 121 Technical Physics	3	—
SPE 115 Speech	<u>3</u>	—
	17	

¹ Requires a grade of "C" or higher.

Fall only courses: Spring only courses:

ELT 102	ELT 103
ELT 111	ELT 150
ELT 214	ELT 210
ELT 236	ELT 224
ELT 151	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.

*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 2010

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.