



**BIOMEDICAL ELECTRONICS TECHNOLOGY
Degree Program**

Career Curriculum 00ELT 3023
Associate in Applied Science
Minimum Hrs. 62
Major Code: 1.2 150401

FIRST YEAR – FALL SEMESTER

Dept. No.		Hrs.	Gr.
HIT 217	Medical Terminology I	3	___
ELT 102	Basic Electricity and Wiring	4	___
ELT 111	Digital Electronics I	3	___
MAT 113	Introduction to Contemporary Mathematics	3	___
SPE 116	Interpersonal Communications	3	___
		<u>16</u>	

SECOND YEAR – FALL SEMESTER

Dept. No.		Hrs.	Gr.
ELT 151	Applied Solid State Circuits	3	___
ELT 250	Biomedical Instrumentation II	3	___
ENG 113	Professional Technical Writing	3	___
HIS 201	United States History I OR HIS 202 United States History II OR PSC 131 American Government	3	___
PHY 121	Technical Physics	3	___
		<u>15</u>	

FIRST YEAR – SPRING SEMESTER

Dept. No.		Hrs.	Gr.
HIT 215	Pathophysiology	3	___
ELT 103	Applied DC/AC Circuits	4	___
ELT 112	Digital Electronics II	3	___
ELT 150	Applied Solid State Electronics	3	___
ELT 170	Biomedical instrumentation I	3	___
		<u>16</u>	

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 280	Biomedical Instrumentation III	3	___
		<u>15</u>	

Fall only courses:

Spring only courses:

ELT 102	ELT 103	ELT 210
ELT 111	ELT 150	ELT 218
ELT 151	ELT 170	ELT 220
ELT 250	ELT 200	ELT 280

¹ Requires a grade of "C" or higher.

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 biomedical instruments. Upon completion of this program, the student will be awarded an associate degree in biomedical 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.

Career Opportunities: Graduates of this program have career opportunities in entry level biomedical positions. Technicians install, use, maintain, and train healthcare personnel on cutting-edge medical technology. In addition, they support medical staff in the use of technology, help acquire medical equipment, coordinate vendor contracts and play a key role in investigating device related problems. The program also prepares students for the written portion of the Certified Biomedical Equipment Technician exam.