



# Associate in Applied Science

## Toward a Degree in Biomedical Electronics Technology

Career Curriculum 00ELT 3023  
Minimum Hours: 62  
Major Code: 1.2 150401  
Effective Date: Fall 2017

### FIRST YEAR – FALL SEMESTER

Dept.	No.		Hrs.	Grade
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>3</u>	
			16	

### NOTES AND INFORMATION

<u>Fall only courses:</u>		<u>Spring only courses:</u>	
ELT 102		ELT 103	ELT 210
ELT 111		ELT 150	ELT 218
ELT 151		ELT 170	ELT 220
ELT 250		ELT 200	ELT 280

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

### FIRST YEAR – SPRING SEMESTER

Dept.	No.		Hrs.	Grade
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>3</u>	
			16	

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).

### SECOND YEAR – FALL SEMESTER

Dept.	No.		Hrs.	Grade
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>3</u>	
			15	

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 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.

### SECOND YEAR – SPRING SEMESTER

Dept.	No.		Hrs.	Grade
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>3</u>	
			15	

**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.

*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.*