



FIRST YEAR – FALL SEMESTER

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

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 ¹	3	___
HIS	201	United States History I OR HIS 202 United States History II OR PSC 131 American Government	3	___
PHY	121	Technical Physics	<u>3</u>	___
			15	

FIRST YEAR – SPRING SEMESTER

Dept.	No.		Hrs.	Gr.
BUS	216	Pathophysiology and Pharmacology	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	<u>3</u>	___
			16	

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	<u>3</u>	___
			15	

Fall only courses:

ELT 102
ELT 111
ELT 151
ELT 250

Spring only courses:

ELT 103 ELT 210
ELT 150 ELT 218
ELT 170 ELT 220
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.