

**Associate in Applied Science**  
Toward a Degree in  
**Biomedical Electronics  
Technology**

**FIRST YEAR – FALL SEMESTER**

Dept.	No.		Hrs.	Grade
ORI	100	College 101	1	_____
HIT	217	Medical Terminology I	3	_____
ELT	102	Basic Electricity and Wiring	4	_____
ELT	111	Digital Electronics I	3	_____
ENG	101	English Composition I or ENG 113 Professional Technical Writing	3	_____
MAT	113	or MAT 112 Introduction to Contemporary Mathematics	3	_____
			<u>17</u>	

**FIRST YEAR – SPRING SEMESTER**

Dept.	No.		Hrs.	Grade
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	_____
COM	115	Speech or COM 116 Interpersonal Communications	3	_____
-			<u>16</u>	

**SECOND YEAR – FALL SEMESTER**

Dept.	No.		Hrs.	Grade
ELT	151	Applied Solid State Circuits	3	_____
ELT	200	Introduction to Microprocessors	3	_____
ELT	214	Fundamentals of Computing Hardware	3	_____
ELT	250	Biomedical Instrumentation II	3	_____
PHY	121	Technical Physics	3	_____
IAI		Social and Behavioral Science Elective	3	_____
			<u>18</u>	

**SECOND YEAR – SPRING SEMESTER**

Dept.	No.		Hrs.	Grade
ELT	210	Supporting Computer Operating Systems	3	_____
ELT	215	IOT and Embedded Systems	3	_____
ELT	218	Introduction to Network Technologies	3	_____
ELT	220	Special Projects in Electronics	3	_____
ELT	280	Biomedical Instrumentation III	3	_____
			<u>15</u>	

**NOTES AND INFORMATION**

<u>Fall only courses:</u>		<u>Spring only courses:</u>		
ELT 111	ELT 250	ELT 103	ELT 210	ELT 280
ELT 151		ELT 112	ELT 215	
ELT 200		ELT 150	ELT 218	
ELT 214		ELT 170	ELT 220	

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

**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.

**JALC ELT Programs are education members of:**



Association for the Advancement of Medical Instrumentation®  
901 N. Glebe Road, Suite 300  
Arlington, VA 22203

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