

Electronic Engineering Technology

Biomedical Option

TERRY CAMPUS

Spring 2020

This degree program takes the electronics program and provides course work beyond the normal theories and applications of the electronics technology field. Courses from the computer and electromechanical engineering technologies and the nursing program become part of the curriculum requirements. Internship work experience in electronics and in a hospital/medical environment is a significant part of the program. A student who is training to be a biomedical technician must have a high level of personal commitment, ethical conduct, and a knowledge of interpersonal relationships in order to enable him or her to interact with medical staff within the hospital/medical environment. Courses are transferable to four-year degree programs in engineering technology and related programs.

PROGRAM SPECIFIC ADVISEMENT STATEMENT

Courses - Semester 1

	Credits	Lecture	Lab
SSC 100 - First Year Seminar	1	1	0
ELC 125 - Electrical Circuits I	4	3	3
CHM 110 - General Chemistry	4	3	2
MAT 181 - Algebra and Trigonometry I	4	4	0
ENG 101 - Crit Thinking & Acad Writing	3	3	0
CEN 100 - Intro Elec & Computer Eng Tech	3	2	2

Courses - Semester 2

	Credits	Lecture	Lab
CEN 126 - Industrial Networks	3	2	2
ELC 126 - Analog Electronics I	3	2	2
ELC 127 - Digital Electronics	4	3	3
BIO 110 - Essentls-Anatomy & Physiology	4	3	2
MAT 190 - Precalculus	4	4	1

Courses - Semester 3

	Credits	Lecture	Lab
ELC 225 - Electrical Circuits II	4	3	3
ENG 102 - Composition and Research	3	3	0
ELC 260 - Biomedical Instrumentation	4	3	3
ELC 226 - Analog Electronics II	3	2	2

Courses - Semester 4

	Credits	Lecture	Lab
PHY 111 - Conceptual Physics	4	3	2
(ELC 236 - Analog Electronics III	4	3	2
OR ELC 290 - Internship)	4	1	9
ELC 291 - Biomed Electronics Internship	3	0	10

Approved Electives

Select two social science electives to be taken in the fourth semester. However, these electives may be taken at any time after satisfying test scores and/or prerequisites.

Group	Courses	Credits	Lecture	Lab
	ECO 111 - Macroeconomics	3	3	0
	ECO 122 - Microeconomics	3	3	0
	POL 111 - Political Science	3	3	0

PSY 100 - Human Relations	3	3	0
PSY 121 - General Psychology	3	3	0
SOC 111 - Sociology	3	3	0
HIS 111 - U. S. History: Pre-Civil War	3	3	0
HIS 112 - U. S. History: Post-Civil War	3	3	0
COM 111 - Human Communications	3	3	0

*To complete program requirements, you must pass the above courses and earn at least **68 credits**. The number of courses and credits required for graduation may be more depending on your need for developmental education courses and the elective choices you make (if electives are a part of the program). Some programs also have college-level courses that you must take if you do not score at a certain level on the College Placement Test. If this applies to your program, the courses are listed at the top of the sequence sheet before the first semester of the course list.*