

Biomedical Equipment Technology

Biomedical Equipment Technology (A50100)

Degree Awarded

The Associate in Applied Science Degree - Biomedical Equipment Technology is awarded by the college upon completion.

Admissions

- A high school diploma or equivalent is required. High school students preparing for an Engineering Technology program should complete courses in algebra, geometry, and advanced mathematics. Skills and proficiencies should be developed in writing, computer literacy, and science.
- Central Piedmont placement tests are required in English and mathematics. Advancement Studies in mathematics and English courses are available for students to build basic skills and knowledge. A counseling/orientation appointment follows placement testing.
- Many courses require prerequisites or co-requisites; check the Courses section for details.

Contact Information

The Biomedical Equipment Technology program is in the Engineering Technology Division. For additional information, please contact the Program Chair at 704-330-2722 ext 3143.

General Education Requirements

ACA 122	College Transfer Success	1.0
ENG 111	Writing and Inquiry	3.0
Select 1 of the following:		3.0
ENG 112	Writing and Research in the Disciplines	
ENG 113	Literature-Based Research	
ENG 114	Professional Research & Reporting	
COM 110	Introduction to Communication	
COM 231	Public Speaking	
Select 1 of the following:		3.0
MAT 121	Algebra/Trigonometry I	
	or MAT 171 Precalculus Algebra	
Select 1 of the following:		3.0
PSY 150	General Psychology	
	or SOC 210 Introduction to Sociology	
Select 1 of the following:		3.0
ART 111	Art Appreciation	
	or ART 114 Art History Survey I	
	or ART 115 Art History Survey II	
	or DRA 111 Theatre Appreciation	
	or HUM 120 Cultural Studies	
	or HUM 130 Myth in Human Culture	
	or MUS 110 Music Appreciation	
	or MUS 112 Introduction to Jazz	
	or PHI 215 Philosophical Issues	

or PHI 240 Introduction to Ethics

or REL 110 World Religions

Major Requirements		
BMT 111	Introduction to Biomedical Field	2.0
BMT 112	Hospital Safety Standards	3.0
BMT 120	Biomedical Anatomy & Physiology	3.0
BMT 212	BMET Instrumentation I	6.0
BMT 213	BMET Instrumentation II	3.0
BMT 223	Imaging Techniques/Laser Fundamentals	4.0
Networking Electives (Select 6.0 credits from the following)		6.0
CTI 120	Network and Security Foundation	
NET 125	Introduction to Networks	
NET 126	Switching and Routing	
Other Major Courses		
ELC 131	Circuit Analysis I	4.0
ELN 131	Analog Electronics I	4.0
ELN 133	Digital Electronics	4.0
DFT 154	Introduction to Solid Modeling	3.0
SEC 110	Security Concepts	3.0
CTI 130	Operating Systems and Device Foundation	6.0
WBL 122	Work-Based Learning II	3.0
& WBL 125	and Work-Based Learning Seminar II	
BMT Electives (Select 3.0 credits from the following)		3.0
BMT 225	Biomedical Trouble Shooting	
ATR 112	Introduction to Automation	
ELC 213	Instrumentation	
ELC 229	Applications Project	
ELN 232	Introduction to Microprocessors	
ELN 233	Microprocessor Systems	
ELN 260	Programmable Logic Controllers	
NET 225	Enterprise Networking	
NET 226	Network Programmability	
PCI 170	DAQ and Control	
PCI 173	Programmable Systems	
SEC 150	Secure Communications	
SEC 160	Security Administration I	
WBL 111 and WBL 115 count as 1 course		
WBL 111	Work-Based Learning I	
& WBL 115	and Work-Based Learning Seminar I	
WBL 112 and WBL 115 count as 1 course		
WBL 112	Work-Based Learning I	
& WBL 115	and Work-Based Learning Seminar I	
Total Credits		73