

Biomedical Instrumentation Technology AAS

Career & Technical Division

Program Description:

The Biomedical Instrumentation Technology program provides the skills necessary to install, maintain, calibrate, and repair medical equipment in hospitals, doctors' offices, dental offices, and anywhere medical equipment is used. Graduates will be prepared for direct employment within a hospital, field service for a manufacturer, and third party field service technicians.

Career Outlook:

The field expects a 27% growth nationally and even higher in rural areas for the coming years.

Salary Forecast:

For the most current salary information please refer to the Bureau of Labor Statistics "Occupational Outlook Handbook" found at www.bls.gov/ooh/.

Employment Opportunities:

BMT I, II, III
Maintenance Technician
Equipment Specialist
Process Control
Technician
Installation Technician
BMT Supervisor

Earn A Degree Graduate Early (EDGE)

Contact Information:

Michael Maxson
Room 337
Phone: 304-710-3458 or 1-866-N-ROLLED (1-866-676-5533)
E-mail: maxson@mctc.edu

Our mission is to prepare students for careers, civic responsibility and life-long learning.

Biomedical Instrumentation Technology – Major Code CB30

Name:			ID Number 942-	
CAPS SCORES:	MATH:	ENGLISH:	READ:	DOE:
COL 101 Faculty:				
Educational Counselor:				
Faculty Advisor:				

COURSE	REQUIREMENTS	SEM	HRS	GR	SUBSTITUTE/REPEAT CRS	SEM	CR
AH 151	Medical Terminology ¹ (EDGE)		3				
ELT 111	Direct Current Circuit Analysis ^{2,3}		3				
ELT 111L	Direct Current Electronics Lab		1				
ENL 111	Written Communication ⁴		3				
IT 101	Fundamentals of Computers (EDGE)		3				
MAT 145	Applications in Algebra ⁵		3				
			16				
BIOL 257	Introduction to Anatomy & Physiology (EDGE)		3				
BMT 110	Safety in Healthcare		3				
ELT 121	Alternating Current Circuit Analysis ^{2,6}		3				
ELT 121L	Alternating Current Electronics Lab		1				
IT 270	Computer Essentials & Applications ⁷		4				
MAT 215	Applied Discrete Mathematics ⁸		3				
			17				
IT 131	Introduction to Networking		4				
ELT 131	Analog Circuits ^{2,9}		3				
ELT 131L	Analog Circuits Lab		2				
ELT 211	Combinational Logic Circuits ^{2,10}		3				
ELT 211L	Combinational Logic Circuits Lab		1				
BMT 223	Biomedical Instrumentation		3				
			16				
BMT 225	Biomedical Instrumentation II ¹¹		3				
BMT 299	Biomedical Internship		3				
COM 125	Interpersonal Communication ¹		3				
SCI 110	Introductory Physics ¹²		4				
	Social Science Elective ¹³		3				
			16				

DEVELOPMENTAL COURSES REQUIRED

COURSE	REQUIREMENTS	SEM	HRS	GR	SUBSTITUTE/REPEAT CRS	SEM	CR
	HOURS REQUIRED FOR GRADUATION: 65						

- AH 151 has a prerequisite of placement in 100-level reading.
- ELT 111, 121, 131, and 211 must be taken concurrently with their respective labs: ELT 111L, 121L, 131L, and 211L.
- ELT 111 has a prerequisite of MAT 145.
- ENL 111 has a prerequisite of placement in 100-level English, and placement in 100-level reading.
- MAT 145 has a prerequisite of placement 100-level mathematics.
- ELT 121 has a prerequisite of ELT 111.
- IT 270 has a prerequisite of IT 101 or IT 102.
- MAT 215 has a prerequisite of MAT 135 or MAT 145.
- ELT 131 has a prerequisite ELT 121.
- ELT 211 has a prerequisite of MAT 215.
- BMT 225 has a prerequisite of BMT 223.
- SCI 110 has a prerequisite of MAT 125, MAT 135 or MAT 145.
- Choose from EC, HIST, PSYC or SS 100-level or above.

Our mission is to prepare students for careers, civic responsibility and life-long learning.