

Biomedical Instrumentation Technology, AAS

Academic Year 2026-2027

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 and Salary Forecast:

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

Program Outcomes:

- Exercise the daily activities of a technician in a medical setting
- Apply basic troubleshooting and calibration skills to biomedical equipment
- Interact successfully with technical staff while analyzing simple to moderately complex problems associated with biomedical equipment
- Execute accepted documentation practices for maintenance and calibration of biomedical equipment

Employment Opportunities:

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

Contact Information:

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Biomedical Instrumentation Technology – Major Code CB30							
Name:					ID Number 942-		
Educational Counselor:							
Faculty Advisor:							
COURSE	REQUIREMENTS	SEM	HRS	GR	SUBSTITUTE/REPEAT CRS	SEM	CR
AH 151	Medical Terminology		3				
ELT 111	Direct Current Circuit Analysis & Applications ¹		5				
ENL 131	Business and Technical Writing ²		3				
MAT 120	Applied Professional Math ³		3				
			14				
BMT 110	Safety in Healthcare		3				
COM 112 or COM 125	Oral Communication or Interpersonal Communication		3				
ELT 121	Alternating Current Circuit Analysis & Applications ⁴		5				
IT 101	Fundamentals of Computers		3				
MAT 215	Applied Discrete Math ⁵		3				
			17				
BMT 223	Biomedical Instrumentation		3				
ELT 131	Analog Circuits Analysis & Applications ⁶		5				
ELT 211	Digital Circuits ⁷		5				
IT 170	Computer Essentials and Applications ⁸		4				
			17				
BMT 225	Biomedical Instrumentation II ⁹		3				
BMT 299	Biomedical Internship ¹⁰		3				
IT 225 or IT 230	Fundamental of Wireless LANs Network Communications		3				
SCI 110	Introductory Physics ¹¹		4				
			13				
HOURS REQUIRED FOR GRADUATION: 61							

¹ELT 111 has a prerequisite/corequisite of MAT 120.

²ENL 131 has a prerequisite of ACT 18, SAT 480, or Accuplacer 250-300.

³MAT 120 has a prerequisite of a minimum ACT Math score of 19, SAT Math score of 510, or Accuplacer 250.

⁴ELT 121 has a prerequisite of ELT 111.

⁵MAT 215 has a prerequisite of MAT 120.

⁶ELT 131 has a prerequisite ELT 121.

⁷ELT 211 has a prerequisite of MAT 215.

⁸IT 170 has a prerequisite of IT 101 or IT 102.

⁹BMT 225 has a prerequisite of BMT 223.

¹⁰BMT 299 has a prerequisite of permission.

¹¹SCI 110 has a prerequisite of MAT 120, MAT 120E, Mat 130, MAT 130E, MAT 132, MAT 135, MAT 144, MAT 205, MAT 229, or permission.