Biomedical Instrumentation Technology, AAS

Academic Year 2024-2025

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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www.mctc.edu

Academic Year 2024-2025

02/15/2024

| Biomedical Instrumentation Technology – Major Code CB30 | | | | | | | | | |
|---|---|-------|----|--|--|----------------|--|--|--|
| Name: | | | | | | ID Number 942- | | | |
| Educational Counselor: Faculty Advisor: | | | | | | | | | |
| | | | | | | | | | |
| AH 151 | Medical Terminology (EDGE) | | 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 (EDGE) | | 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 270 | Computer Essentials and Applications ⁸ | | 4 | | | | | | |
| | | | 17 | | | | | | |
| BMT 225 | Biomedical Instrumentation II9 | | 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 | N: 61 | | | | | | | |

¹ ELT 111 has a prerequisite/corequisite of MAT 144. MAT 144 has a corequisite of MAT 099.

¹ ELT 111 has a prerequisite/corequisite of MAT 144. MAT 144 has a corequisite of MAT 099.
² ENL 131 has a prerequisite of placement in 100-level English or a corequisite of ENL 095.
³ MAT 120 has a prerequisite of placement in 100-level Math or a minimum ACT Math score of 19 or SAT Math score of 510.
⁴ ELT 121 has a prerequisite of ELT 111.
⁵ MAT 215 has a prerequisite of MAT 144 or MAT 120.
⁶ ELT 131 has a prerequisite ELT 121.
⁷ ELT 211 has a prerequisite of MAT 215.
⁸ IT 270 has a prerequisite of IT 101 or IT 102.
⁹ BMT 225 has a prerequisite of BMT 233.

⁹ BMT 225 has a prerequisite of BMT 223.
 ¹⁰ BMT 299 has a prerequisite of permission.
 ¹¹ SCI 110 has a prerequisite of MAT 144, MAT 120, or MAT 120E.

Mountwest Community & Technical College Academic Year 2024-2025