

# BIOMEDICAL EQUIPMENT TECHNOLOGY

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The Biomedical Equipment Technology curriculum prepares individuals to install, operate, troubleshoot, and repair sophisticated devices and instrumentation used in the healthcare delivery system. Emphasis is placed on preventive and safety inspections to ensure biomedical equipment meets local and national safety standards.

Coursework provides a strong foundation in mathematics, physics, electronics, chemistry, anatomy, physiology, and troubleshooting techniques. People skills are very important as well as the ability to communicate both in written and oral form. A biomedical equipment technician is a problem solver.

Graduates should qualify for employment opportunities in hospitals, clinics, clinical laboratories, shared service organizations, and manufacturers' field service. With an AAS degree and two years of experience, an individual should be able to become a certified Biomedical Equipment Technician.

## Learning Outcomes

Upon completion of this program, students will be able to:

- Identify and properly document an equipment initial inspection for database entry
- Demonstrate competency in biomedical equipment technician knowledge and skills on a mock ICC Certification Exam
- Demonstrate networking skills by successfully connecting and testing a bedside patient monitoring system
- Perform the duties of a Biomedical Equipment Technician while serving in an intern position in a hospital Biomedical Department

## Additional Information

Applicants should be aware that some clinical affiliates require that students submit an acceptable criminal background check and/or drug screening prior to participation in a clinical component at that site. Students are responsible for paying any costs associated with meeting this clinical site requirement. Progress toward graduation may be jeopardized by any inability to complete the clinical portion of the Biomedical Equipment Technology program.

## Background Checks / Drug Screening

Applicants accepted for admission to health services programs at Stanly Community College are required to complete a criminal background check, drug screening, and possibly a fingerprint check after notification of acceptance and prior to participation in on-site clinical training. Based on the results of the checks, hospitals or clinical affiliates where the student will participate in on-site training may deny access to their facility resulting in the student's inability to complete the clinical portion of training. Students unable to complete the clinical portion of his or her training will be unable to progress in the program. Students are responsible for paying all costs associated with this requirement.

- Biomedical Equipment Technology - Associate in Applied Science (p. 1)
- Biomedical Equipment - CCP (p. 2)

## Biomedical Equipment Technology - Associate in Applied Science - A50100

Gainful Employment Disclosure (<https://www.stanly.edu/ajax/gedt/EA50100.pdf>)

Course	Title	Credit Hours
<b>First Year</b>		
<b>Fall</b>		
ACA 111	College Student Success	1
BIO 163	Basic Anatomy & Physiology	5
BMT 111	Introduction to Biomedical Field	2
CIS 110	Introduction to Computers	3
ELC 131	Circuit Analysis I	4
ELC 131A	Circuit Analysis I Lab	1
Credit Hours		16
<b>Spring</b>		
ELN 131	Analog Electronics I	4
ELN 133	Digital Electronics	4
ENG 111	Writing and Inquiry	3
CTS 120	Hardware/Software Support	3
Credit Hours		14
<b>Summer</b>		
ENG 112 or ENG 114	Writing and Research in the Disciplines or Professional Research & Reporting	3
BMT 112	Hospital Safety Standards	3
Social Science Elective *		3
Credit Hours		9
<b>Second Year</b>		
<b>Fall</b>		
BMT 212	BMET Instrumentation I	6
BMT 223	Imaging Techniques/Laser Fundamentals	4
CTI 120 or NET 125	Network and Security Foundation or Introduction to Networks	3
MAT 171	Precalculus Algebra	4
Credit Hours		17
<b>Spring</b>		
BMT 213	BMET Instrumentation II	3
BMT 225	Biomedical Trouble Shooting	3
WBL 112	Work-Based Learning I	2
WBL 115	Work-Based Learning Seminar I	1
Humanities Elective *		3
Credit Hours		12
Total Credit Hours		68

\*Please see the Suggested Humanities and Social/Behavioral Science Elective List for AAS Majors webpage (<http://catalog.stanly.edu/curriculum-programs-study/suggested-humanities-social-science-electives-list-for-aas-majors/>).

## Biomedical Equipment - CCP

Tuition-waived program for Career & College Promise (<https://www.stanly.edu/future-students/career-college-promise/>) (high school students)

Course	Title	Credit Hours
<b>First Year</b>		
<b>Fall</b>		
BMT 111	Introduction to Biomedical Field	2
ELC 131	Circuit Analysis I	4
ELC 131A	Circuit Analysis I Lab	1
Credit Hours		7
<b>Spring</b>		
ELN 133	Digital Electronics	4
CTS 120	Hardware/Software Support	3
Credit Hours		7
<b>Second Year</b>		
<b>Fall</b>		
BMT 223	Imaging Techniques/Laser Fundamentals	4
Credit Hours		4
Total Credit Hours		18

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